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MONTHLY PROGRESS REPORT NO. 11
for the period January 1-31, 1977
to
ENVIRONMENTAL PROTECTION AGENCY
REGION VIII

1860 Lincoln St., Suite 900
Denver, CO 80203

Contract No. 68-01-1946

Colorado C-b Tract

aeromet inc.

P.O. BOX FF NORMAN, OKLAHOMA 73070
405 329-2424

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1.0 INTRODUCTION

Low level temperature and wind data were collected for January, 1977 at Casper, Wyoming; near the Shell Oil Co. Colorado C-b Tract 25 miles west of Rio Blanco, Colorado; Craig, Colorado; Escalante and Hanksville Utah; Rock Springs, Wyoming; and the U-a/U-b Tract 5 miles south of Bonanza, Utah. The data collection was made using a 30 gm helium filled pilot balloon with a temperature sonde attached, a single theodolite and a TSR-2 receiver/recorder twice a day every other day. The observations were made ½ hour after sunrise and 1400L.

The pilot balloon had an ascent rate of 500 ft/min and it was tracked by a single theodolite for 12 minutes with the azimuth and elevation angles recorded every 30 seconds on a cassette tape recorder. The tape was transcribed to a pilot balloon form after the observation.

The temperature sonde operated at 403 MHz and the signal was received by a ground plane antenna at least 24 ft. AGL which was attached to the Aeromet, Inc. TSR-2 receiver/recorder. The TSR-2 receiver has a built-in Rustrak strip chart recorder and the temperature was recorded within the range from -50°C to +50°C. A baseline temperature calibration was performed with each T-Sonde by the adjustment of the recorded temperature to match the thermometer measured temperature next to the transmitting sonde. Once the calibration check was finished the balloon was released with the sonde attached and the temperature was recorded for at least 20 minutes. At the completion of each observation the data were mailed to Aeromet, Inc.

The Monthly Progress Report is divided into seven parts, one corresponding to each of the seven field sites. The collected temperature and wind data are accurate and have not been edited unless otherwise stated in the Pilot Balloon Summary Section. However, the obvious errors sometimes found in the recorded azimuth and elevation angles are corrected without mention. For example, the sequence of azimuth angles . . . 76.6, 75.3, 47.8, 73.8 . . . can be corrected without ambiguity. The more ambiguous errors are brought to the attention of the reader if editing has been performed, otherwise, the data are left as recorded and the filtering is left to the individual user. An example is the wind profile for Hanksville on 06/29/76 at 1300 MST found in the Monthly Progress Report No. 4. The azimuth angles starting 30 seconds after the launch and incremented by the same are as follows . . . 109.0, 110.0, 110.0, 281.0, 280.0, 282.0 . . . , while the corresponding elevation angles are as follows, . . . 60.0, 57.6, 58.7, 58.6, 52.7, 44.3 . . . . The wind speed and direction change dramatically over the interval as can be seen in the report since these data were not edited.

2.0 DATA SUMMARY

2.1 Colorado C-b Tract Field Summary

Mr. Bob Emmons of the PL Ranch took over the responsibility for the balloon observations on 5 January. The equipment was moved to his ranch which is less than 3 miles from the location where observations were conducted on the C-b Tract. There were no major problems that developed during the month and data recovery increased dramatically.

The observer attempted 84% of the scheduled pilot balloon releases resulting in an 84% recovery of the temperature data and 78% recovery of the wind data. The 6% loss in wind data was caused by a snow storm.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION VIII
1860 LINCOLN STREET
DENVER, COLORADO 80203

RECEIVED
MAY 6 1977
OFFICE OF
AREA OIL SHALE SUPERVISOR
U.S. G.S.

May 3, 1977

Mr. Peter Rutledge
Area Oil Shale Supervisor
USDI - Conservation Division
Mesa Federal Savings & Loan
131 North 6th, Suite 300
Grand Junction, Colorado 81501

Dear Pete:

Please find enclosed the monthly progress reports from our contractor for upper air meteorological data collection on tracts UaUb and near C-b. By copy of this memo, I am transmitting copies to the lessees. The January data collection went well near C-b (84% temperature; 78% wind) and at UaUb (100% temperature; 94% wind). One item to note is the large percentage of F stability conditions occurring with SSE winds during this period.

Sincerely,

Terry L. Thoem
Office of Energy Activities

cc: George Fosdick
Rees Madsen

Enclosures

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2.2 Mixing Layer Height

The average mixing layer height was computed for the morning and afternoon based on the morning and 1400L temperature soundings. The balloon release ½ hour after sunrise is near enough to the minimum temperature to assume the correctness of the calculated mixing layer heights. The afternoon balloon release is generally not at the time of maximum heating and the user of the mixing layer height data must be aware that minor changes in the calculated values can be expected. Without equipping the field sites with minimum/maximum thermometers the extrapolation of the afternoon data can not be justified in establishing a data base for statistical analysis. The approximation of the afternoon maximum temperature would be a "calculated guess" for there are: 1) local effects which are to be determined and would be filtered out with extrapolation, 2) mountain effects which alter the lower 1500m (e.g. downslope effects), and 3) meteorological effects which can alter the expected change in the sounding (e.g. advection, moisture, etc.).

It is felt that to better define the mixing layer height that a variety of "heat island" effects should be viewed. The rigorous method would be to define 15 "heat island" effects ranging from 0 to 14°C and let the user decide which would best serve his needs. However, for these analysis 0°, +5° and +10° "heat island" effects are calculated and listed for the morning and afternoon soundings in the table Average Mixing Layer Height.

The symbol N/D means that no mixing layer height was defined and sfc is the abbreviation for surface.

2.3 Stability and Inversion Classification

The temperature and wind data were edited to remove data felt to cause anomalous results in the stability and inversion classification schemes. Only the stations listed prior to the table classifying the inversions were used in the calculations.

3.0 DATA PROCESSING

3.1 Printed and Plotted Output

Wind speeds and directions are computed from the azimuth and elevation angles measured while tracking the balloon with the theodolite. The wind speed and direction are plotted versus height and printed out at 30 second intervals. The printed output includes the AGL and MSL height of the calculated wind value and the orthogonal components of the wind. The wind profile is also punched on computer cards at 30 second intervals.

The temperature data are processed and plotted with the temperature and the lapse rate per 300 meters versus height at 15 second intervals. Tic marks are placed on the temperature plot at significant levels. A solid line to the right side of the plot indicates the data for that layer are interpolated temperature values. The temperature data are also printed out and punched on cards. The asterisk beside a height value indicates a significant level while a "?" indicates interpolated data.

The temperature data are also processed to produce for each site a monthly summary of inversion layers and lapse rates within the inversions and from the inversion base to the surface by means of the Holzworth classification scheme for inversions (Holzworth, G.C., 1974: "Climatological Data on Atmospheric Stability in the United States" Paper presented at the American Meteorological Society Symposium on Atmospheric Diffusion and Air Pollution, September 9-13, 1974. Santa Barbara, California.)

The temperature and wind data are processed together to produce for each site a monthly average bivariate frequency distribution of wind direction versus wind speed represented in the 500m layer adjacent to the ground. The distribution is presented by the six Pasquill stability classes (A-F) and a summary independent of stability. If the $\Delta T/100m$ criterion is met but the wind speed criterion is not met, then the

STABILITY CLASS	ΔT (°C/100m)	WIND SPEED
A	<-1.9	≤ 2
B	-1.9 - -1.7	≤ 5
C	-1.7 - -1.5	≤ 6
D	-1.5 - -0.5	ALL SPEEDS
E	-0.5 - 1.5	≤ 5
F	>1.5	≤ 3

wind data are checked against the criterion for the next stability class, always cascading to the D stability class. Once the wind speed criterion is met the data are classified under the new stability class even though now the lapse rate exceeds the class criterion. For example,

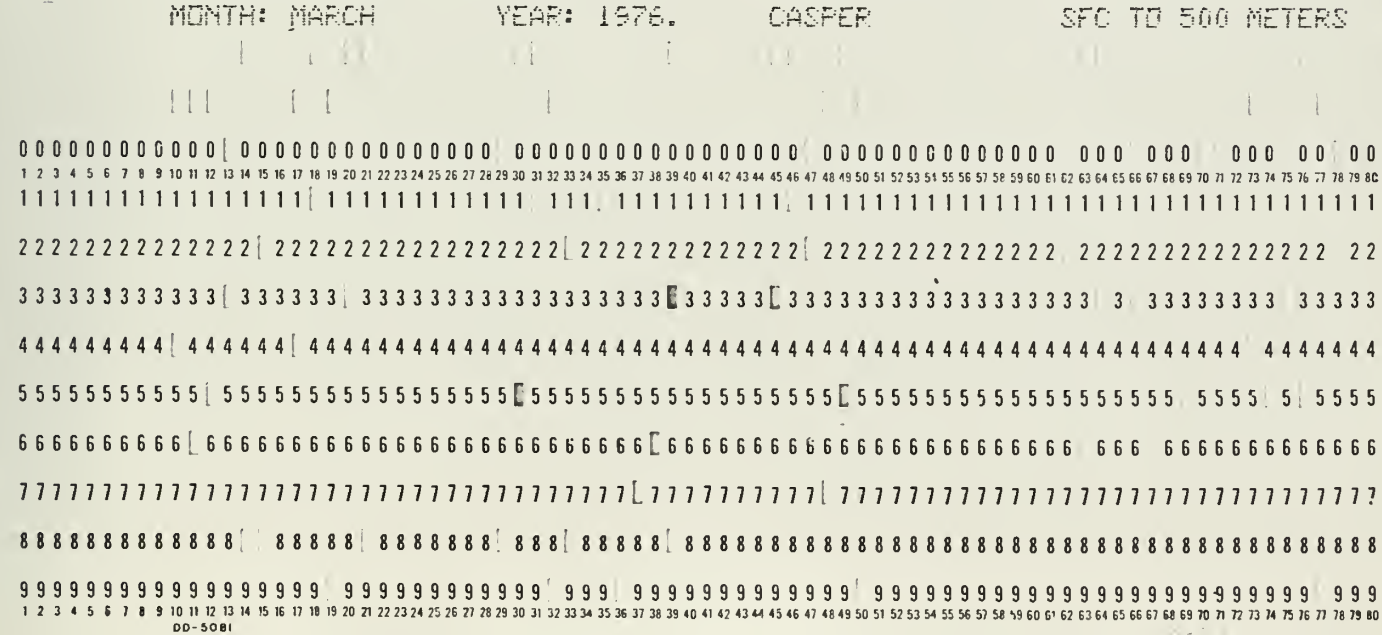
if the $\Delta T/100m$ value is 1.7 and the wind speed is 7 m/s, the lapse rate criterion is met for the stability class F, however the wind speed criterion is exceeded. The wind speed is greater than the 5 m/s maximum limit for class E but falls within the criterion of class D, which includes all wind speeds. As a result the observational data with a ΔT value of 1.7°C/100 m and a wind speed value of 7 m/s are classified under stability class D, not class F.

The data are also punched on computer cards in a format compatible with the STAR PROGRAM of the National Climatic Center, NOAA, U.S. Department of Commerce.

3.2 Punched Output

The punched temperature and wind data for each observation are categorized into four groups, each separated by a blank card. The first group begins with a header card listing the station name (3A4), the station elevation in meters (I4), the month, date and year (I6), the observation time (I4), the time zone (A3), the balloon ascent rate in feet per minute (I3), the sampling interval in seconds (I2), the temperature error in °C (F5.1), the T-Sonde I.D. number (I5) and the surface wind speed in kts and direction (2F6.1). A surface wind speed of 180.0 KTS indicates missing surface wind data. The series of cards prior to the first blank card include on each card the elapse time in minutes (2X,F5.1), the height of the balloon in meters AGL (4X,F5.0), the height of the balloon in meters MSL(4X,F5.0), the temperature in °C (4X,F6.2), the change in temperature between standard or significant levels (2X,F6.2), the lapse rate per 300m (2X,F6.2), the difference in the lapse rate per 300m and the dry adiabatic lapse rate per 300m (2X,F6.2), the wind speed in m/s if known (4X,F5.1), and the wind direction if known (3X,F5.0). The cards following the first blank card include on each card the elapse time in minutes (2X,F5.1), the height in meters AGL (4X,F5.0), the height in meters MSL (4X,F5.0), the u-component of the wind in m/s (4X,F6.1), the v-component of the wind in m/s (6X,F6.1), the wind speed in m/s (7X,F5.1), the wind direction (6X,F5.0), the elevation angle in degrees (F5.1) and the azimuth angle in degrees (F5.1). The cards after the second blank card include a header card like before and a series of cards with four groups of the following on each card; the height in meters AGL (F6.1), the temperature in °C (F6.2), the lapse rate °C/300m (F6.2) and a blank space (1X). The cards after the third blank card include a header card the same as described earlier, eight cards with the original digitized temperature data and a flag to indicate interpolated data (20(F3.1,I1)), five cards with the elevation angle in degrees (16F5.1), and five cards with the azimuth angle in degrees (16F5.1). The temperature data are in degrees Celsius and have 50°C added to each value. An elevation angle of 180° indicates a missing azimuth and elevation angle value.

The punched output from the bivariate frequency distribution calculations include a header card as illustrated below,



and the punched distribution data for each wind direction under each stability class in agreement with the "star" output. The stability classes are number coded as follows:

STABILITY CLASS	NUMBER CODE
A	1
B	2
C	3
D	4
E	5
F	6
Independent of Stability	7

The station I.D. numbers are as follows:

STATION	I.D. NUMBER
Casper, Wyoming	1
Colorado C-b Tract	2
Craig, Colorado	3
Escalante, Utah	4
Hanksville, Utah	5
Rock Springs, Wyoming	6
Utah U-a/U-b Tract	7

The month and season number codes are as follows:

MONTH	1-12
SEASON	13 = DJF
	14 = MAM
	15 = JJA
	16 = SON
ANNUAL	17

PILOT BALLOON SUMMARY
Colorado C-b Tract
January, 1977

January 1	MORN, AFTN	No data were collected.
January 3	MORN, AFTN	No data were collected.
January 5	0800	The 16.8 m s^{-1} wind speed at 533m AGL should be filtered out.
	1400	The temperature values were interpolated over the interval from 2¼ to 4½ minutes. Balloon was lost in the clouds after 1½ minutes.
January 7	0800	Balloon was lost after 10½ minutes due to difficulty with theodolite.
	1400	Balloon was lost from sight after 11 minutes.
January 9	0800	
	1400	
January 11	0830	
	1400	
January 13	0820	Balloon was lost in the clouds after 12 minutes.
	1630	Temperature values were interpolated over the interval from ¼ to 5 minutes. Balloon was lost in the clouds after 10½ minutes.
January 15	0830	
	AFTN	No data were collected.

PILOT BALLOON SUMMARY
Colorado C-b Tract
January, 1977

January 17	0824	
	1400	Balloon was lost in the clouds after 11½ minutes.
January 19	0815	
	1420	
January 21	0815	
	1400	
January 23	0800	It was snowing at the time of release and no wind data could be collected.
	1400	Snow prevented the collection of the wind data.
January 25	0800	
	1400	
January 27	0800	
	1400	
January 29	0800	
	1400	
January 31	0800	
	1400	

AVERAGE MIXING LAYER HEIGHTS

Colorado C-b Tract

January, 1977

HEIGHT IN METERS

	MORNING			AFTERNOON		
DATE	0°	+5°	+10°	0°	+5°	+10°
1						
3						
5	150m	400m	750m	150m	1400m	N/D
7	50m	300m	700m	750m	1400m	2400m
9	sfc	250m	1200m	1350m	1750m	2300m
11	sfc	50m	75m	sfc	75m	150m
13	sfc	150m		1800m	3100m	N/D
15	sfc	300m	1000m			
17	sfc	100m	350m	950m	2200m	2700m
19	1200m	1600m	2850m	sfc	100m	200m
21	sfc	100m	200m	850m	2200m	N/D
23	250m	1400m	3250m	600m	2050m	3000m
25	sfc	100m	300m	100m	1600m	3300m
27	sfc	100m	250m	1600m	N/D	N/D
29	sfc	50m	100m	sfc	2500m	3500m
31	sfc	50m	100m	1350m	2000m	N/D

CLOUD COVER AND SIGNIFICANT WEATHER
Colorado C-b Tract
January, 1977

DATE	MORNING	AFTERNOON
1		
3		
5	overcast	overcast, light snow
7	clear	clear, windy
9	clear	scattered
11	clear	clear
13	broken, light snow	overcast
15	clear	
17	scattered, snow west	scattered
19	scattered	clear
21	scattered	broken
23	overcast, snow	overcast, snow
25	scattered	clear
27	clear	clear
29	scattered	clear
31	scattered	scattered

COL CB TRACT ELEV 2042 METERS SOUNDING ID 2855

DATE 01/05/77 TIME 08:00MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

INV BASE METERS AGL	INV TOP METERS AGL	INV DT/DZ (DEG C)/100M	DT/DZ BELOW INV (DEG C)/100M
152.	724.	0.70	-0.98

COL CB TRACT ELEV 2042 METERS SOUNDING ID 2857

DATE 01/05/77 TIME 14:00MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

INV BASE METERS AGL	INV TOP METERS AGL	INV DT/DZ (DEG C)/100M	DT/DZ BELOW INV (DEG C)/100M
191.	229.	0.0	-0.86

COL CB TRACT ELEV 2042 METERS SOUNDING ID 2847

DATE 01/07/77 TIME 08:00MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

INV BASE METERS AGL	INV TOP METERS AGL	INV DT/DZ (DEG C)/100M	DT/DZ BELOW INV (DEG C)/100M
38.	533.	0.70	-0.50

COL CB TRACT ELEV 2042 METERS SOUNDING ID 2846

DATE 01/07/77 TIME 14:00MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

INV BASE METERS AGL	INV TOP METERS AGL	INV DT/DZ (DEG C)/100M	DT/DZ BELOW INV (DEG C)/100M
634.	672.	0.79	-1.03

COL CB TRACT ELEV 2042 METERS SOUNDING ID 2844

DATE 01/09/77 TIME 08:00MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

INV BASE METERS AGL	INV TOP METERS AGL	INV DT/DZ (DEG C)/100M	DT/DZ BELOW INV (DEG C)/100M
0.	572.	0.53	0.0

COL CB TRACT ELEV 2042 METERS SOUNDING ID 2848

DATE 01/09/77 TIME 14:00MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

INV BASE METERS AGL	INV TOP METERS AGL	INV DT/DZ (DEG C)/100M	DT/DZ BELOW INV (DEG C)/100M
1432.	1508.	0.0	-0.93

COL CB TRACT ELEV 2042 METERS SOUNDING ID 2849

DATE 01/11/77 TIME 08:30MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

INV BASE METERS AGL	INV TOP METERS AGL	INV DT/DZ (DEG C)/100M	DT/DZ BELOW INV (DEG C)/100M
0.	305.	5.49	0.0

COL CB TRACT ELEV 2042 METERS SOUNDING ID 2850

DATE 01/11/77 TIME 14:00MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

THERE ARE INSUFFICIENT DATA WITHIN 2000M OF THE SFC

COL CB TRACT ELEV 2042 METERS SOUNDING ID 2851

DATE 01/13/77 TIME 08:20MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

THERE ARE INSUFFICIENT DATA WITHIN 2000M OF THE SFC

COL CB TRACT ELEV 2042 METERS SOUNDING ID 3395

DATE 01/13/77 TIME 16:30MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

THERE ARE NO INVERSION BASES WITHIN 0M OF THE SFC

LAYER BASE METERS AGL	LAYER TOP METERS AGL	DT/DZ (DEG C)/100M
0.	100.	-1.52
100.	250.	-0.70
250.	500.	-0.95
500.	750.	-1.00
750.	1000.	-0.96
1000.	1500.	-1.00

COL CB TRACT ELEV 2042 METERS SOUNDING ID 3393

DATE 01/15/77 TIME 08:30MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

INV BASE METERS AGL	INV TOP METERS AGL	INV DT/DZ (DEG C)/100M	DT/DZ BELOW INV (DEG C)/100M
0.	1143.	0.39	0.0

COL CB TRACT ELEV 2042 METERS SOUNDING ID 3398

DATE 01/17/77 TIME 08:24MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

INV BASE METERS AGL	INV TOP METERS AGL	INV DT/DZ (DEG C)/100M	DT/DZ BELOW INV (DEG C)/100M
0.	419.	1.63	0.0

COL CB TRACT ELEV 2042 METERS SOUNDING ID 3399

DATE 01/17/77 TIME 14:00MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

INV BASE METERS AGL	INV TOP METERS AGL	INV DT/DZ (DEG C)/100M	DT/DZ BELOW INV (DEG C)/100M
647.	685.	0.0	-1.03

COL CB TRACT ELEV 2042 METERS SOUNDING ID 3390

DATE 01/19/77 TIME 08:15MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

INV BASE METERS AGL	INV TOP METERS AGL	INV DT/DZ (DEG C)/100M	DT/DZ BELOW INV (DEG C)/100M
402.	440.	0.73	-1.49

COL CB TRACT ELEV 2042 METERS SOUNDING ID 3389

DATE 01/27/77 TIME 08:00MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

INV BASE METERS AGL	INV TOP METERS AGL	INV DT/DZ (DEG C)/100M	DT/DZ BELOW INV (DEG C)/100M
0.	495.	1.83	0.0

****

COL CB TRACT ELEV 2042 METERS SOUNDING ID 3382

DATE 01/27/77 TIME 14:00MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

INV BASE METERS AGL	INV TOP METERS AGL	INV DT/DZ (DEG C)/100M	DT/DZ BELOW INV (DEG C)/100M
706.	744.	0.50	-1.07

****

COL CB TRACT ELEV 2042 METERS SOUNDING ID 4116

DATE 01/29/77 TIME 08:00MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

INV BASE METERS AGL	INV TOP METERS AGL	INV DT/DZ (DEG C)/100M	DT/DZ BELOW INV (DEG C)/100M
0.	419.	3.43	0.0

****

COL CB TRACT ELEV 2042 METERS SOUNDING ID 4126

DATE 01/29/77 TIME 14:00MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

INV BASE METERS AGL	INV TOP METERS AGL	INV DT/DZ (DEG C)/100M	DT/DZ BELOW INV (DEG C)/100M
0.	76.	2.35	0.0

****

COL CB TRACT ELEV 2042 METERS SOUNDING ID 4122

DATE 01/31/77 TIME 08:00MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

INV BASE METERS AGL	INV TOP METERS AGL	INV DT/DZ (DEG C)/100M	DT/DZ BELOW INV (DEG C)/100M
0.	457.	3.04	0.0

****

COL CB TRACT ELEV 2042 METERS SOUNDING ID 4123

DATE 01/31/77 TIME 14:00MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

INV BASE METERS AGL	INV TOP METERS AGL	INV DT/DZ (DEG C)/100M	DT/DZ BELOW INV (DEG C)/100M
1383.	1421.	0.0	-0.95

COL CB TRACT ELEV 2042 METERS SOUNDING ID 3383

ATE 01/19/77 TIME 14:20MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

INV BASE METERS AGL	INV TOP METERS AGL	INV DT/DZ (DEG C)/100M	DT/DZ BELOW INV (DEG C)/100M
0.	381.	3.12	0.0

****

COL CB TRACT ELEV 2042 METERS SOUNDING ID 3388

ATE 01/21/77 TIME 08:15MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

INV BASE METERS AGL	INV TOP METERS AGL	INV DT/DZ (DEG C)/100M	DT/DZ BELOW INV (DEG C)/100M
0.	267.	3.41	0.0

****

COL CB TRACT ELEV 2042 METERS SOUNDING ID 3400

ATE 01/21/77 TIME 14:00MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

INV BASE METERS AGL	INV TOP METERS AGL	INV DT/DZ (DEG C)/100M	DT/DZ BELOW INV (DEG C)/100M
953.	991.	0.0	-0.92

****

COL CB TRACT ELEV 2042 METERS SOUNDING ID 3386

ATE 01/23/77 TIME 08:00MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

INV BASE METERS AGL	INV TOP METERS AGL	INV DT/DZ (DEG C)/100M	DT/DZ BELOW INV (DEG C)/100M
285.	323.	0.0	-0.96

****

COL CB TRACT ELEV 2042 METERS SOUNDING ID 3392

ATE 01/23/77 TIME 14:00MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

INV BASE METERS AGL	INV TOP METERS AGL	INV DT/DZ (DEG C)/100M	DT/DZ BELOW INV (DEG C)/100M
76.	136.	0.0	-2.27

****

COL CB TRACT ELEV 2042 METERS SOUNDING ID 3391

ATE 01/25/77 TIME 08:00MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

INV BASE METERS AGL	INV TOP METERS AGL	INV DT/DZ (DEG C)/100M	DT/DZ BELOW INV (DEG C)/100M
0.	419.	1.92	0.0

****

COL CB TRACT ELEV 2042 METERS SOUNDING ID 3390

ATE 01/25/77 TIME 14:00MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

INV BASE METERS AGL	INV TOP METERS AGL	INV DT/DZ (DEG C)/100M	DT/DZ BELOW INV (DEG C)/100M
0.	38.	0.0	0.0

MONTH: JANUARY YEAR: 1977. COL CB TRACT ELEV 2042 METERS

HOLZWORTHIS CLASSIFICATION SCHEME FOR INVERSIONS
MODIFIED TO SHOW TOTAL NUMBER INSTEAD OF PERCENT

THICKNESS (METERS)	INVERSION BASE HEIGHT (M) SFC	1- 100	101- 250	251- 500	501- 750	751- 1000	1000- 1500	1501- 2000	2001- 2500	2501- 3000	TOTAL
1 - 100	2	1	1	2	3	1	2	0	0	0	12
101 - 250	0	0	0	0	0	0	0	0	0	0	0
251 - 500	8	1	0	0	0	0	0	0	0	0	9
501 - 750	1	0	1	0	0	0	0	0	0	0	2
751 - 1000	0	0	0	0	0	0	0	0	0	0	0
1001 - 1500	1	0	0	0	0	0	0	0	0	0	1
> 1500	0	0	0	0	0	0	0	0	0	0	0
INV TOTAL	12	2	2	2	3	1	2	0	0	0	24
DT/DZ 5		0	0	0	0	0	0	0	0	0	0
FROM INV 4		1	0	0	0	0	0	0	0	0	1
BASE 3		0	2	1	3	1	2	0	0	0	9
TO 2		0	0	1	0	0	0	0	0	0	1
SFC 1		1	0	0	0	0	0	0	0	0	1
NO INV TOT		1	1	1	1	1	1				
DT/DZ FOR 5		0	0	0	0	0	0				
SAME 4		0	1	0	0	0	0				
LAYERS 3		0	0	1	1	1	1				
AS INV 2		1	0	0	0	0	0				
BASE 1		0	0	0	0	0	0				

DT/DZ (DEG C)/100M
5= 0.00 TO -0.40
4=-0.41 TO -0.80
3=-0.81 TO -1.20
2=-1.21 TO -1.60
1=<-1.60

MONTH: JANUARY YEAR: 1977. COL CB TRACT SFC TO 500 METERS

NORMALIZED FREQUENCY DISTRIBUTION

DIRECTION	SPEED (METER/SEC) 0-3	4-6	7-10	11-16	17-21	GREATER THAN 21	AVERAGE SPEED	TOTAL
N	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NNE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ENE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ESE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SSE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SSW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
WSW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
W	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
WNW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NNW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
AVG SPEED	0.0	0.0	0.0	0.0	0.0	0.0		0.0
TOTAL	0.0	0.0	0.0	0.0	0.0	0.0		0.0

RELATIVE FREQUENCY OF OCCURRENCE OF THE A STABILITY CLASS IS 0.0

RELATIVE FREQUENCY OF CALM 0.0

A TOTAL OF 3 SOUNDINGS FROM A SAMPLE OF 27 SOUNDINGS DID NOT HAVE 500 M OF TEMP AND WIND DATA

MONTH: JANUARY YEAR: 1977. COL CB TRACT SFC TO 500 METERS

NORMALIZED FREQUENCY DISTRIBUTION

DIRECTION	SPEED (METER/SEC) 0-3	4-6	7-10	11-16	17-21	GREATER THAN 21	AVERAGE SPEED	TOTAL
N	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NNE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ENE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ESE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SSE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SSW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
WSW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
W	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
WNW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NNW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
AVG SPEED	0.0	0.0	0.0	0.0	0.0	0.0		0.0
TOTAL	0.0	0.0	0.0	0.0	0.0	0.0		0.0

RELATIVE FREQUENCY OF OCCURRENCE OF THE B STABILITY CLASS IS 0.0

RELATIVE FREQUENCY OF CALM 0.0

A TOTAL OF 3 SOUNDINGS FROM A SAMPLE OF 27 SOUNDINGS DID NOT HAVE 500 M OF TEMP AND WIND DATA

MONTH: JANUARY YEAR: 1977. COL CB TRACT SFC TO 500 METERS

NORMALIZED FREQUENCY DISTRIBUTION

DIRECTION	SPEED (METER/SEC) 0-3	4-6	7-10	11-16	17-21	GREATER THAN 21	AVERAGE SPEED	TOTAL
N	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NNE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ENE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ESE	0.10	0.0	0.0	0.0	0.0	0.0	1.9	0.10
SE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SSE	0.30	0.0	0.0	0.0	0.0	0.0	1.3	0.30
S	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SSW	0.20	0.30	0.0	0.0	0.0	0.0	4.2	0.50
SW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
WSW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
W	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
WNW	0.0	0.10	0.0	0.0	0.0	0.0	4.6	0.10
NW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NNW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
AVG SPEED	1.9	5.1	0.0	0.0	0.0	0.0		0.0
TOTAL	0.60	0.40	0.0	0.0	0.0	0.0		1.00

RELATIVE FREQUENCY OF OCCURRENCE OF THE D STABILITY CLASS IS 0.42

RELATIVE FREQUENCY OF CALM 0.0

A TOTAL OF 3 SOUNDINGS FROM A SAMPLE OF 27 SOUNDINGS DID NOT HAVE 500 M OF TEMP AND WIND DATA

MONTH: JANUARY YEAR: 1977. COL CB TRACT SFC TO 500 METERS

NORMALIZED FREQUENCY DISTRIBUTION

DIRECTION	SPEED (METER/SEC) 0-3	4-6	7-10	11-16	17-21	GREATER THAN 21	AVERAGE SPEED	TOTAL
N	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NNE	0.11	0.0	0.0	0.0	0.0	0.0	1.5	0.11
NE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ENE	0.11	0.0	0.0	0.0	0.0	0.0	1.6	0.11
E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ESE	0.11	0.11	0.0	0.0	0.0	0.0	2.5	0.22
SE	0.0	0.11	0.0	0.0	0.0	0.0	3.6	0.11
SSE	0.33	0.11	0.0	0.0	0.0	0.0	2.8	0.44
S	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SSW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
WSW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
W	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
WNW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NNW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
AVG SPEED	2.1	3.5	0.0	0.0	0.0	0.0		0.0
TOTAL	0.67	0.33	0.0	0.0	0.0	0.0		1.00

RELATIVE FREQUENCY OF OCCURRENCE OF THE E STABILITY CLASS IS 0.38

RELATIVE FREQUENCY OF CALM 0.0

A TOTAL OF 3 SOUNDINGS FROM A SAMPLE OF 27 SOUNDINGS DID NOT HAVE 500 M OF TEMP AND WIND DATA

MONTH: JANUARY YEAR: 1977 COL CB TRACT SFC TO 500 METERS

NORMALIZED FREQUENCY DISTRIBUTION

DIRECTION	SPEED (METER/SEC) 0-3	4-6	7-10	11-16	17-21	GREATER THAN 21	AVERAGE SPEED	TOTAL
N	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NNE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ENE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ESE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SSE	0.80	0.0	0.0	0.0	0.0	0.0	2.2	0.80
S	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SSW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
WSW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
W	0.20	0.0	0.0	0.0	0.0	0.0	1.4	0.20
WNW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NNW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
AVG SPEED	2.1	0.0	0.0	0.0	0.0	0.0		0.0
TOTAL	1.00	0.0	0.0	0.0	0.0	0.0		1.00

RELATIVE FREQUENCY OF OCCURRENCE OF THE F STABILITY CLASS IS 0.21

RELATIVE FREQUENCY OF CALM 0.0

A TOTAL OF 3 SOUNDINGS FROM A SAMPLE OF 27 SOUNDINGS DID NOT HAVE 500 M OF TEMP AND WIND DATA

MONTH: JANUARY YEAR: 1977 COL CB TRACT SFC TO 500 METERS

NORMALIZED FREQUENCY DISTRIBUTION

DIRECTION	SPEED (METER/SEC) 0-3	4-6	7-10	11-16	17-21	GREATER THAN 21	AVERAGE SPEED	TOTAL
N	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NNE	0.04	0.0	0.0	0.0	0.0	0.0	1.5	0.04
NE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ENE	0.04	0.0	0.0	0.0	0.0	0.0	1.6	0.04
E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ESE	0.08	0.04	0.0	0.0	0.0	0.0	2.3	0.13
SE	0.0	0.04	0.0	0.0	0.0	0.0	3.6	0.04
SSE	0.42	0.04	0.0	0.0	0.0	0.0	2.2	0.46
S	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SSW	0.08	0.13	0.0	0.0	0.0	0.0	4.2	0.21
SW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
WSW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
W	0.04	0.0	0.0	0.0	0.0	0.0	1.4	0.04
WNW	0.0	0.04	0.0	0.0	0.0	0.0	4.6	0.04
NW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NNW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
AVG SPEED	2.0	4.4	0.0	0.0	0.0	0.0		0.0
TOTAL	0.71	0.29	0.0	0.0	0.0	0.0		1.00

NORMALIZED FREQUENCY DISTRIBUTION INDEPENDENT OF STABILITY

RELATIVE FREQUENCY OF CALM 0.0

A TOTAL OF 3 SOUNDINGS FROM A SAMPLE OF 27 SOUNDINGS DID NOT HAVE 500 M OF TEMP AND WIND DATA

COL CB TRACT ELEV 2042 METERS SOUNDING ID 2855

DATE 01/05/77 TIME 08:00MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

TIME MIN	HEIGHT M (AGL)	HEIGHT M (MSL)	TEMP DEG C	D/T SEC	D/T 300M	D/T LAPSE	WS M/S	WD DEG
	SFC		-13.04		0.0		0.0	0.
1.0	150	2192	-14.54	-1.49	0.0	2.93	1.3	208.
2.0	300	2342	-14.04	0.50	1.18	4.11	2.8	241.
2.3	* 342	2384	-13.94		2.35	5.28		
3.0	458.	2500.	-11.85	2.17	2.15	5.07	2.2	306.
3.3	500	2542	-11.85	0.01	2.15	5.07	10.3	190.
4.3	* 647	2689	-10.86		1.95	4.88		
6.3	958.	3000.	-11.85	0.01	-2.15	0.78	3.1	84.
12.8	1958.	4000.	-15.84	-3.99	-0.59	2.34		
19.4	2958.	5000.	-17.04	-1.21	-1.58	1.35		

COL CB TRACT ELEV 2042 METERS SOUNDING ID 2855

DATE 01/05/77 TIME 08:00MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

TIME MIN	HEIGHT M (AGL)	HEIGHT M (MSL)	U-COMP M/S	V-COMP M/S	WND SPEED M/S	WND DIR DEG
0.0	0.	2042.	0.0	0.0	0.0	0.
0.5	76.	2118.	0.1	0.6	0.7	189.
1.0	152.	2194.	0.7	1.2	1.4	208.
1.5	229.	2271.	2.0	1.3	2.4	237.
2.0	305.	2347.	2.5	1.3	2.8	242.
2.5	381.	2423.	2.0	1.1	2.3	242.
3.0	457.	2499.	1.6	-1.3	2.0	308.
3.5	533.	2575.	-16.6	2.2	16.8	98.
4.0	610.	2652.	-1.4	-1.7	2.2	40.
4.5	686.	2728.	-4.9	1.3	5.1	105.
5.0	762.	2804.	-3.7	0.7	3.8	101.
5.5	838.	2880.	-3.7	0.3	3.7	95.
6.0	914.	2956.	-2.7	0.2	2.8	94.
6.5	991.	3033.	-3.3	-0.6	3.4	77.
7.0	1067.	3109.	-0.8	-1.6	1.8	28.
7.5	1143.	3185.	-0.0	-1.8	2.0	28.
8.0	1219.	3261.	-7.5	-0.9	7.6	83.
8.5	1295.	3337.	-7.9	-2.5	8.3	72.
9.0	1372.	3414.	-1.2	-3.0	3.2	21.
9.5	1448.	3490.	-0.7	-7.8	7.9	5.
10.0	1524.	3566.	0.9	-3.1	3.2	343.
10.5	1600.	3642.	0.2	-2.2	2.2	356.
11.0	1676.	3718.	-1.7	-0.0	1.7	90.
11.5	1753.	3795.	-0.5	1.1	1.2	158.
12.0	1829.	3871.	-0.9	2.1	2.3	156.

COL CB TRACT ELEV 2042 METERS SOUNDING ID 2857

DATE 01/05/77 TIME 14:00MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

TIME MIN	HEIGHT M (AGL)	HEIGHT M (MSL)	TEMP DEG C	D/T STD	D/T 300M	D/T LAPSE	WS M/S	WD DEG
	SFC		-1.28		0.0		2.6	360.
1.0	150	2192	-2.82	-1.54	-0.95	1.98	1.4	285.
2.0	300	2342	-3.02	-0.20	-1.53	1.40	M	M
3.0	458.	2500.	-4.17	-1.15	-1.72	1.21	M	M
3.3	500	2542	-4.37	-0.20	-1.53	1.40	M	M
6.3	958.	3000.	-6.91	-2.55	-2.31	0.61	M	M

COL CB TRACT ELEV 2042 METERS SOUNDING ID 2857

DATE 01/05/77 TIME 14:00MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

TIME MIN	HEIGHT M (AGL)	HEIGHT M (MSL)	U-COMP M/S	V-COMP M/S	WND SPEED M/S	WND DIR DEG
0.0	0.	2042.	0.0	-2.6	2.6	360.
0.5	76.	2118.	0.7	-0.2	0.8	286.
1.0	153.	2195.	1.4	-0.4	1.4	285.
1.5	229.	2271.	2.1	-0.5	2.2	284.

COL CB TRACT ELEV 2042 METERS SOUNDING ID 2847

DATE 01/07/77 TIME 08:00MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

TIME MIN	HEIGHT M (AGL)	HEIGHT M (MSL)	TEMP DEG C	D/T STD	D/T 300M	D/T LAPSE	WS M/S	WD DEG
	SEC		-8.97		0.0		M	M
0.3	* 38	2080	-9.16		0.0	0.0		
1.0	150	2192	-6.84	2.12	4.39	7.32	2.8	129.
1.5	* 228	2270	-6.25		0.19	3.12		
2.0	300	2342	-5.72	0.12	-1.52	1.40	5.2	154.
3.0	458.	2500.	-5.57	0.80	1.71	4.64	6.6	200.
3.3	500	2542	-5.68	0.25	1.71	4.64	6.4	210.
6.3	958.	3000.	-5.86	-0.18	0.19	3.12	8.7	232.
12.6	1958.	4000.	-10.92	-5.00	-1.16	1.77		
19.1	2958.	5000.	-17.84	-6.92	-2.36	0.57		

COL CB TRACT ELEV 2042 METERS SOUNDING ID 2847

DATE 01/07/77 TIME 08:00MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

TIME MIN	HEIGHT M (AGL)	HEIGHT M (MSL)	U-COMP M/S	V-COMP M/S	WND SPEED M/S	WND DIR DEG
			THE WIND DATA ARE MISSING			
0.5	76.	2118.	-3.0	-0.0	3.0	90.
1.0	152.	2194.	-2.1	1.8	2.8	131.
1.5	229.	2271.	-2.0	3.2	3.8	148.
2.0	305.	2347.	-2.3	4.7	5.2	155.
2.5	381.	2423.	-0.0	5.3	5.3	180.
3.0	457.	2499.	2.3	5.2	5.7	200.
3.5	533.	2575.	3.8	4.8	6.1	218.
4.0	610.	2652.	2.0	3.2	3.7	212.
4.5	686.	2728.	1.7	2.3	2.8	217.
5.0	762.	2804.	3.0	4.4	5.3	214.
5.5	838.	2880.	5.8	3.8	6.9	237.
6.0	914.	2956.	4.3	3.6	5.6	230.
6.5	991.	3033.	8.8	6.7	11.0	233.
7.0	1067.	3109.	5.0	2.8	5.7	241.
7.5	1143.	3185.	9.7	6.6	11.7	236.
8.0	1219.	3261.	9.3	4.0	10.1	246.
8.5	1295.	3337.	9.8	3.2	10.3	252.
9.0	1372.	3414.	11.0	3.2	11.5	254.
9.5	1448.	3490.	10.3	2.7	10.6	255.
10.0	1524.	3566.	10.6	2.0	10.8	259.
10.5	1600.	3642.	11.9	1.0	11.9	265.

COL CR TRACT ELEV 2042 METERS SOUNDING ID 2846

DATE 01/07/77 TIME 14:00MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

TIME MIN	HEIGHT M (AGL)	HEIGHT M (MSL)	TEMP DEG C	D/T STD	D/T 300M	D/T LAPSE	WS M/S	WD DEG
	SFC		-1.09		0.0		M	M
0.3	150	2192	-3.19	-2.10	-3.25	-0.32	5.9	186.
1.3	300	2342	-4.94	-1.75	-1.53	1.39	4.9	198.
2.8	458.	2500.	-6.14	-1.10	-4.04	-1.12	4.3	213.
3.0	500	2542	-6.85	-0.88	-2.31	0.61	4.9	218.
5.9	958.	3000.	-9.58	-2.72	-2.33	0.60	5.5	243.
12.4	1958.	4000.	-12.85	-3.37	-0.78	2.14		
18.0	2958.	5000.	-17.54	-4.70	-2.57	0.36		
25.4	3958.	6000.	-25.24	-7.70	-3.01	-0.08		

COL CR TRACT ELEV 2042 METERS SOUNDING ID 2846

DATE 01/07/77 TIME 14:00MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

TIME MIN	HEIGHT M (AGL)	HEIGHT M (MSL)	U-COMP M/S	V-COMP M/S	WND SPEED M/S	WND DIR DEG
			THE WIND DATA ARE MISSING			
0.5	76.	2118.	0.2	4.5	4.5	183.
1.0	171.	2213.	0.7	6.3	6.3	187.
1.5	255.	2297.	1.3	5.1	5.3	194.
2.0	337.	2379.	1.7	4.2	4.6	202.
2.5	414.	2456.	1.6	3.2	3.5	207.
3.0	488.	2530.	3.1	3.0	4.0	219.
3.5	506.	2638.	1.2	3.6	3.8	199.
4.0	672.	2714.	-0.2	1.7	1.7	173.
4.5	748.	2790.	-0.3	1.5	2.0	156.
5.0	825.	2867.	1.0	1.7	2.0	212.
5.5	901.	2943.	4.2	2.1	4.7	244.
6.0	977.	3019.	5.2	2.6	5.8	243.
6.5	1053.	3095.	9.2	5.1	10.5	241.
7.0	1129.	3171.	10.6	2.6	10.9	256.
7.5	1206.	3248.	12.4	-0.6	12.4	273.
8.0	1282.	3324.	12.1	5.9	13.5	244.
8.5	1358.	3400.	11.0	4.5	11.8	248.
9.0	1434.	3476.	9.2	3.5	9.9	249.
9.5	1510.	3552.	9.6	4.1	10.5	247.
10.0	1587.	3629.	12.9	7.4	14.9	240.
10.5	1664.	3706.	14.2	9.5	17.1	236.
11.0	1740.	3782.	12.5	6.9	14.3	241.

COL CB TRACT ELEV 2042 METERS SOUNDING ID 2844

DATE 01/09/77 TIME 08:00MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

TIME MIN	HEIGHT M (AGL)	HEIGHT M (MSL)	TEMP DEG C	D/T STD	D/T 300M	D/T LAPSE	WS M/S	WD DEG
	SFC		-22.39		0.0		2.6	180.
0.8	* 114	2156	-19.36		2.59	5.51		
1.0	150	2192	-19.76	2.64	-0.20	2.73	2.0	111.
2.0	300	2342	-19.56	0.20	0.20	3.13	1.4	91.
3.0	458.	2500.	-19.46	0.18	0.20	3.13	4.0	18.
3.3	500	2542	-19.45	-0.07	0.20	3.13	4.0	204.
6.2	958.	3000.	-23.10	-3.24	-2.40	0.53	10.2	326.
12.7	1958.	4000.	-24.94	-2.24	1.60	4.53	17.8	327.

COL CB TRACT ELEV 2042 METERS SOUNDING ID 2844

DATE 01/09/77 TIME 08:00MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

TIME MIN	HEIGHT M (AGL)	HEIGHT M (MSL)	U-COMP M/S	V-COMP M/S	WND SPEED M/S	WND DIR DEG
0.0	0.	2042.	-0.0	2.6	2.6	180.
0.5	76.	2118.	-1.3	0.1	1.3	93.
1.0	152.	2194.	-1.9	0.8	2.0	112.
1.5	229.	2271.	-2.3	1.7	2.8	127.
2.0	305.	2347.	-1.3	-0.0	1.3	89.
2.5	381.	2423.	-1.3	-1.9	2.3	33.
3.0	457.	2499.	-1.0	-3.8	4.0	14.
3.5	533.	2575.	0.6	-4.0	4.0	352.
4.0	610.	2652.	0.4	-6.5	6.5	356.
4.5	686.	2728.	3.1	-7.5	8.2	338.
5.0	762.	2804.	4.8	-6.6	8.1	324.
5.5	843.	2885.	5.4	-7.7	9.4	325.
6.0	924.	2966.	5.3	-8.1	9.7	327.
6.5	1003.	3045.	6.2	-8.8	10.8	325.
7.0	1079.	3121.	7.1	-9.2	11.6	323.
7.5	1155.	3197.	9.2	-11.4	14.7	321.
8.0	1231.	3273.	9.9	-13.4	16.7	323.
8.5	1308.	3350.	6.9	-12.1	14.0	330.
9.0	1399.	3441.	6.0	-15.8	16.9	339.
9.5	1475.	3517.	6.2	-13.2	14.6	335.
10.0	1552.	3594.	6.9	-14.7	16.2	335.
10.5	1628.	3670.	8.5	-16.1	18.2	332.
11.0	1704.	3746.	9.9	-19.3	21.7	333.
11.5	1780.	3822.	9.3	-18.1	20.3	333.
12.0	1856.	3898.	8.1	-13.6	15.8	329.
12.5	1933.	3975.	9.0	-14.1	16.8	327.
13.0	2009.	4051.	11.4	-16.2	19.9	325.
13.5	2085.	4127.	10.0	-13.6	16.9	324.
14.0	2161.	4203.	12.1	-21.6	24.8	331.

COL CB TRACT ELEV 2042 METERS SOUNDING ID 2848

DATE 01/09/77 TIME 14:00MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

TIME MIN	HEIGHT M (AGL)	HEIGHT M (MSL)	TEMP DEG C	D/T STD	D/T 300M	D/T LAPSE	WS M/S	WD DEG
	SFC		-6.14		0.0		1.0	180.
0.8	150	2192	-8.76	-2.63	-4.26	-1.34	1.1	110.
1.6	300	2342	-10.05	-1.29	-3.51	-0.58	2.1	205.
2.5	458.	2500.	-11.65	-1.59	-4.10	-1.17	3.4	173.
2.7	500	2542	-11.84	-0.21	-3.72	-0.79	3.5	175.
4.9	958.	3000.	-16.64	-4.79	-2.76	0.17	4.7	239.
11.5	1958.	4000.	-18.15	-1.52	-1.78	1.14	M	M
18.0	2958.	5000.	-18.55	-0.40	0.0	2.93		

COL CB TRACT ELEV 2042 METERS SOUNDING ID 2848

DATE 01/09/77 TIME 14:00MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

TIME MIN	HEIGHT M (AGL)	HEIGHT M (MSL)	U-COMP M/S	V-COMP M/S	WND SPEED M/S	WND DIR DEG
0.0	0.	2042.	-0.0	1.0	1.0	180.
0.5	76.	2118.	-0.6	-0.2	0.6	66.
1.0	196.	2238.	-0.9	1.0	1.4	137.
1.5	289.	2331.	1.0	1.8	2.0	208.
2.0	378.	2420.	-0.6	2.6	2.7	167.
2.5	467.	2509.	-0.4	3.5	3.5	173.
3.0	576.	2618.	-0.2	3.7	3.7	177.
3.5	680.	2722.	1.3	3.6	3.8	201.
4.0	782.	2824.	2.0	3.9	4.4	208.
4.5	882.	2924.	1.9	2.7	3.3	215.
5.0	975.	3017.	4.6	2.2	5.1	244.
5.5	1051.	3093.	3.4	1.2	3.6	250.
6.0	1127.	3169.	5.5	1.2	5.6	258.
6.5	1204.	3246.	9.3	0.5	9.3	267.
7.0	1280.	3322.	10.9	-1.4	11.0	277.
7.5	1356.	3398.	10.2	-2.0	10.4	281.
8.0	1432.	3474.	11.4	-4.3	12.2	291.

COL CB TRACT ELEV 2042 METERS SOUNDING ID 2849

DATE 01/11/77 TIME 08:30MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

TIME MIN	HEIGHT M (AGL)	HEIGHT M (MSL)	TEMP DEG C	D/T STD	D/T 300M	D/T LAPSE	WS M/S	WD DEG
	SFC		-22.43		0.0		2.6	10.
1.0	150	2192	-8.88	13.55	11.33	14.26	2.7	109.
2.0	300	2342	-5.71	3.17	2.32	5.25	1.8	153.
2.0	* 304	2346	-5.70		2.32	5.25		
3.0	458.	2500.	-6.20	-0.09	-2.13	0.80	2.8	208.
3.3	500	2542	-6.17	-0.37	-2.13	0.80	4.3	214.
5.8	* 876	2918	-7.97		2.91	5.84		
6.3	958.	3000.	-5.80	0.34	2.71	5.64	4.5	239.
6.5	* 990	3032	-5.80		2.71	5.64		
12.5	1958.	4000.	-12.04	-6.21	-1.96	0.96		
19.0	2958.	5000.	-17.65	-5.62	-3.38	-0.45		

COL CB TRACT ELEV 2042 METERS SOUNDING ID 2849

DATE 01/11/77 TIME 08:30MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

TIME MIN	HEIGHT M (AGL)	HEIGHT M (MSL)	U-COMP M/S	V-COMP M/S	WND SPEED M/S	WND DIR DEG
0.0	0.	2042.	-0.4	-2.5	2.6	10.
0.5	76.	2118.	-3.7	0.2	3.7	93.
1.0	152.	2194.	-2.5	0.9	2.7	109.
1.5	229.	2271.	-1.4	3.0	3.3	156.
2.0	305.	2347.	-0.8	1.5	1.7	153.
2.5	381.	2423.	0.7	2.7	2.8	195.
3.0	457.	2499.	1.3	2.5	2.8	207.
3.5	533.	2575.	3.5	4.3	5.5	219.
4.0	610.	2652.	-2.0	2.3	3.0	139.
4.5	686.	2728.	0.7	3.3	3.4	191.
5.0	762.	2804.	2.6	1.7	3.2	237.
5.5	838.	2880.	3.3	1.5	3.6	246.
6.0	914.	2956.	1.5	1.8	2.4	220.
6.5	991.	3033.	5.9	1.7	6.1	254.
7.0	1067.	3109.	5.9	-0.3	5.9	273.
7.5	1143.	3185.	5.9	-2.5	6.4	293.
8.0	1223.	3265.	5.8	-2.3	6.3	292.
8.5	1322.	3364.	6.0	-1.1	6.1	281.
9.0	1414.	3456.	6.6	-4.3	7.9	304.
9.5	1494.	3536.	9.3	-5.7	10.9	302.
10.0	1575.	3617.	6.4	-5.3	8.3	309.

COL CB TRACT ELEV 2042 METERS SOUNDING ID 2850

DATE 01/11/77 TIME 14:00MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

TIME MIN	HEIGHT M (AGL)	HEIGHT M (MSL)	TEMP DEG C	D/T STD	D/T 300M	D/T LAPSE	WS M/S	WD DEG
	SFC		-9.87		0.0		2.6	180.
1.0	150	2192	-2.28	7.60	11.44	14.37	1.3	110.
1.8	* 266	2308	0.45		1.32	4.25		
2.0	300	2342	0.36	2.63	0.19	3.12	2.0	159.
3.0	458.	2500.	-0.80	-0.66	-3.22	-0.29	2.4	186.
3.3	500	2542	-0.77	-0.47	-3.22	-0.29	2.6	192.
5.4	958.	3000.	-5.75	-4.94	-7.69	-4.76	6.4	237.
10.9	1958.	4000.					6.8	288.

COL CB TRACT ELEV 2042 METERS SOUNDING ID 2850

DATE 01/11/77 TIME 14:00MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

TIME MIN	HEIGHT M (AGL)	HEIGHT M (MSL)	U-COMP M/S	V-COMP M/S	WND SPEED M/S	WND DIR DEG
0.0	0.	2042.	-0.0	2.6	2.6	180.
0.5	76.	2118.	-0.8	0.0	0.8	93.
1.0	152.	2194.	-1.2	0.5	1.3	111.
1.5	229.	2271.	-1.5	1.1	1.9	127.
2.0	305.	2347.	-0.7	2.0	2.1	161.
2.5	381.	2423.	0.6	1.5	1.6	200.
3.0	457.	2499.	0.2	2.4	2.4	186.
3.5	533.	2575.	0.7	2.6	2.7	196.
4.0	620.	2662.	0.3	2.9	2.9	187.
4.5	712.	2754.	0.0	3.2	3.2	181.
5.0	831.	2873.	1.1	3.4	3.6	198.
5.5	1003.	3045.	7.0	2.5	7.4	251.
6.0	1179.	3221.	5.4	3.2	6.2	239.
6.5	1282.	3324.	6.8	1.3	6.9	259.
7.0	1359.	3401.	4.3	0.9	4.4	259.
7.5	1435.	3477.	4.9	1.0	5.0	258.
8.0	1511.	3553.	5.6	0.9	5.7	261.
8.5	1587.	3629.	5.5	1.0	5.6	259.
9.0	1663.	3705.	5.8	0.8	5.9	263.
9.5	1740.	3782.	6.4	0.3	6.4	267.
10.0	1816.	3858.	5.8	-0.3	5.8	273.
10.5	1892.	3934.	5.8	-1.1	5.9	281.
11.0	1968.	4010.	6.6	-2.3	7.0	289.
11.5	2044.	4086.	6.5	-3.9	7.6	301.
12.0	2121.	4163.	7.5	-5.1	9.0	304.
12.5	2197.	4239.	7.9	-4.8	9.2	301.
13.0	2273.	4315.	6.8	-2.9	7.4	293.
13.5	2349.	4391.	9.4	-4.0	10.2	293.
14.0	2425.	4467.	10.4	-4.4	11.3	293.
14.5	2502.	4544.	9.3	-3.8	10.0	292.

COL CB TRACT ELEV 2042 METERS SOUNDING ID 2851

DATE 01/13/77 TIME 08:20MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

TIME MIN	HEIGHT M (AGL)	HEIGHT M (MSL)	TEMP DEG C	D/T STD	D/T 300M	D/T LAPSE	WS M/S	WD DEG
	SFC		-12.45		0.0		0.0	0.
1.0	150	2192	-8.89	3.56	1.55	4.48	2.9	104.
1.3	* 190	2232	-8.39		0.58	3.51		
2.0	300	2342	-8.88	0.00	0.39	3.32	3.0	129.
3.0	458.	2500.	-9.87	-0.27	-3.30	-0.37	0.5	138.
3.3	500	2542	-9.82	-0.66	-3.30	-0.37	0.9	148.
6.0	958.	3000.					10.3	308.
12.0	1958.	4000.					6.6	272.

COL CB TRACT ELEV 2042 METERS SOUNDING ID 2851

DATE 01/13/77 TIME 08:20MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

TIME MIN	HEIGHT M (AGL)	HEIGHT M (MSL)	U-COMP M/S	V-COMP M/S	WND SPEED M/S	WND DIR DEG
0.0	0.	2042.	0.0	0.0	0.0	0.
0.5	76.	2118.	-2.2	0.5	2.2	104.
1.0	152.	2194.	-2.8	0.7	2.9	104.
1.5	229.	2271.	-3.6	0.9	3.8	105.
2.0	305.	2347.	-2.2	1.9	3.0	131.
2.5	381.	2423.	-1.0	2.4	2.6	158.
3.0	457.	2499.	-0.4	0.4	0.5	138.
3.5	541.	2583.	-0.5	1.2	1.3	158.
4.0	625.	2667.	-1.0	2.3	2.5	156.
4.5	708.	2750.	-0.2	3.1	3.1	175.
5.0	792.	2834.	4.5	4.3	6.3	226.
5.5	876.	2918.	7.8	0.0	7.8	270.
6.0	960.	3002.	8.1	-6.5	10.3	309.
6.5	1043.	3085.	9.0	-1.4	9.1	279.
7.0	1127.	3169.	8.9	-2.7	9.3	287.
7.5	1211.	3253.	6.5	-0.6	6.5	275.
8.0	1295.	3337.	7.5	-0.4	7.5	273.
8.5	1378.	3420.	4.5	0.0	4.5	270.
9.0	1462.	3504.	6.6	-0.1	6.6	271.
9.5	1546.	3588.	5.6	-0.6	5.7	277.
10.0	1630.	3672.	6.2	-1.1	6.3	280.
10.5	1713.	3755.	5.8	-0.4	5.8	274.
11.0	1797.	3839.	8.3	-0.5	8.3	273.
11.5	1881.	3923.	6.3	-0.5	6.3	275.
12.0	1965.	4007.	6.6	-0.2	6.6	272.

COL CB TRACT ELEV 2042 METERS SOUNDING ID 3395

DATE 01/13/77 TIME 16:30MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

TIME MIN	HEIGHT M (AGL)	HEIGHT M (MSL)	TEMP DEG C	D/T STD	D/T 300M	D/T LAPSE	WS M/S	WD DEG
	SFC		-0.13		0.0		0.0	0.
0.9	? 150	2192	-2.12	-2.00	-2.28	0.65	1.0	135.
1.9	? 300	2342	-3.02	-0.89	-2.67	0.26	1.5	143.
2.8	458.	?2500.	-4.93	-1.91	-3.84	-0.91	1.3	214.
3.1	? 500	2542	-5.33	-0.40	-3.65	-0.73	1.7	236.
5.6	958.	3000.	-10.17	-4.84	-3.50	-0.57	3.7	260.
11.7	1958.	4000.	-17.85	-8.18	0.0	2.93	M	M
17.5	2958.	5000.	-24.93	-7.09	-4.41	-1.48		
23.6	3958.	6000.	-32.41	-7.48	-3.04	-0.11		

COL CB TRACT ELEV 2042 METERS SOUNDING ID 3395

DATE 01/13/77 TIME 16:30MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

TIME MIN	HEIGHT M (AGL)	HEIGHT M (MSL)	U-COMP M/S	V-COMP M/S	WND SPEED M/S	WND DIR DEG
0.0	0.	2042.	0.0	0.0	0.0	0.
0.5	76.	2118.	-0.4	0.7	0.8	151.
1.0	165.	2207.	-0.8	0.7	1.1	131.
1.5	241.	2283.	-1.2	1.2	1.7	136.
2.0	317.	2359.	-0.8	1.1	1.4	144.
2.5	393.	2435.	-0.0	0.8	0.8	177.
3.0	486.	2528.	1.2	1.0	1.6	230.
3.5	583.	2625.	2.3	0.0	2.3	269.
4.0	671.	2713.	3.5	-0.2	3.5	273.
4.5	762.	2804.	4.4	-0.1	4.4	271.
5.0	858.	2900.	4.3	0.5	4.3	263.
5.5	938.	2980.	3.7	0.6	3.7	261.
6.0	1015.	3057.	3.6	0.8	3.7	257.
6.5	1107.	3149.	4.0	0.9	4.1	257.
7.0	1201.	3243.	3.6	0.4	3.6	264.
7.5	1290.	3332.	3.7	1.7	4.0	245.
8.0	1373.	3415.	5.0	1.8	5.3	250.
8.5	1458.	3500.	4.6	1.8	5.0	249.
9.0	1540.	3582.	6.5	2.7	7.1	247.
9.5	1618.	3660.	5.2	2.6	5.8	243.
10.0	1697.	3739.	6.3	2.2	6.7	251.
10.5	1777.	3819.	7.3	2.6	7.7	251.

COL CB TRACT ELEV 2042 METERS SOUNDING ID 3393

DATE 01/15/77 TIME 08:30MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

TIME MIN	HEIGHT M (AGL)	HEIGHT M (MSL)	TEMP DEG C	D/T STD	D/T 300M	D/T LAPSE	WS M/S	WD DEG
	SFC		-9.87		0.0		2.6	135.
1.0	150	2192	-6.43	3.44	-0.39	2.54	3.3	108.
1.0	* 152	2194	-6.43		-0.39	2.54		
2.0	300	2342	-7.79	-1.36	1.35	4.28	4.6	176.
3.0	458.	2500.	-6.82	1.42	-0.96	1.96	1.8	195.
3.3	500	2542	-6.79	-0.42	-0.96	1.96	2.7	211.
6.3	958.	3000.	-10.07	-3.27	4.26	7.19	11.0	258.
6.5	* 990	3032	-10.07		4.26	7.19		
7.5	*1142	3184	-5.36		2.89	5.82		
12.1	1958.	4000.	-13.94	-3.77	-5.11	-2.18	19.6	299.
17.7	2958.	5000.	-22.19	-8.35	-3.99	-1.06		
23.0	3958.	6000.	-30.76	-8.58	-2.02	0.91		

COL CB TRACT ELEV 2042 METERS SOUNDING ID 3393

DATE 01/15/77 TIME 08:30MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

TIME MIN	HEIGHT M (AGL)	HEIGHT M (MSL)	U-COMP M/S	V-COMP M/S	WND SPEED M/S	WND DIR DEG
0.0	0.	2042.	-1.8	1.8	2.6	135.
0.5	76.	2118.	-4.5	0.8	4.6	100.
1.0	152.	2194.	-3.1	1.0	3.2	108.
1.5	229.	2271.	-1.3	4.0	4.2	161.
2.0	305.	2347.	-0.3	4.7	4.7	177.
2.5	381.	2423.	-1.1	3.2	3.4	161.
3.0	457.	2499.	0.4	1.7	1.7	195.
3.5	533.	2575.	2.4	2.5	3.5	224.
4.0	610.	2652.	5.0	3.7	6.2	234.
4.5	686.	2728.	5.6	3.1	6.5	241.
5.0	762.	2804.	8.0	3.1	8.6	249.
5.5	838.	2880.	8.3	3.3	8.9	249.
6.0	914.	2956.	9.1	2.0	9.3	258.
6.5	991.	3033.	12.0	2.7	12.3	257.
7.0	1067.	3109.	9.9	1.2	10.0	263.
7.5	1143.	3185.	10.3	1.5	10.4	262.
8.0	1219.	3261.	9.1	-0.2	9.1	271.
8.5	1310.	3352.	9.3	-1.0	9.3	276.
9.0	1397.	3439.	9.9	-0.9	10.0	275.
9.5	1474.	3516.	9.6	-3.9	10.4	292.
10.0	1573.	3615.	15.0	-4.1	15.5	285.
10.5	1671.	3713.	14.8	-5.2	15.7	289.
11.0	1760.	3802.	14.9	-5.8	16.0	291.
11.5	1850.	3892.	15.2	-7.4	16.9	296.
12.0	1944.	3986.	16.5	-9.4	19.0	300.
12.5	2049.	4091.	20.7	-10.2	23.1	296.
13.0	2169.	4211.	23.0	-11.5	25.7	297.

COL CB TRACT ELEV 2042 METERS SOUNDING ID 3398

DATE 01/17/77 TIME 08:24MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

TIME MIN	HEIGHT M (AGL)	HEIGHT M (MSL)	TEMP DEG C	D/T STD	D/T 300M	D/T LAPSE	WS M/S	WD DEG
	SFC		-8.89		0.0		M	M
1.0	150	2192	-3.70	5.18	3.25	6.18	3.5	97.
2.0	300	2342	-2.83	0.87	2.29	5.21	3.8	171.
2.5	* 380	2422	-2.05		0.57	3.50		
3.0	458.	2500.	-2.63	0.30	-1.14	1.78	1.9	205.
3.3	500	2542	-2.63	0.00	-1.14	1.78	2.4	228.
6.3	958.	3000.	-3.60	-0.99	-2.49	0.44	8.2	297.
12.7	1958.	4000.	-8.89	-5.20	-1.36	1.57	10.3	326.
19.3	2958.	5000.	-13.04	-4.26	-2.16	0.77		

COL CB TRACT ELEV 2042 METERS SOUNDING ID 3398

DATE 01/17/77 TIME 08:24MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

TIME MIN	HEIGHT M (AGL)	HEIGHT M (MSL)	U-COMP M/S	V-COMP M/S	WND SPEED M/S	WND DIR DEG
			THE WIND DATA ARE MISSING			
0.5	76.	2118.	-3.6	0.8	3.7	102.
1.0	152.	2194.	-3.5	0.4	3.5	97.
1.5	229.	2271.	-1.7	2.2	2.8	143.
2.0	305.	2347.	-0.5	3.9	3.9	173.
2.5	381.	2423.	0.1	2.5	2.5	183.
3.0	457.	2499.	0.8	1.7	1.9	205.
3.5	533.	2575.	2.6	1.2	2.9	245.
4.0	610.	2652.	5.6	1.3	5.7	257.
4.5	686.	2728.	6.9	0.8	6.9	263.
5.0	762.	2804.	8.1	-0.0	8.1	270.
5.5	838.	2880.	7.4	-1.4	7.5	281.
6.0	914.	2956.	7.6	-3.1	8.2	292.
6.5	991.	3033.	7.1	-4.2	8.2	300.
7.0	1066.	3110.	7.5	-5.0	9.0	304.
7.5	1144.	3186.	7.6	-6.1	9.8	309.
8.0	1220.	3262.	8.0	-6.8	10.5	310.
8.5	1310.	3352.	10.7	-8.4	13.6	308.
9.0	1388.	3430.	10.5	-8.9	13.8	311.
9.5	1464.	3506.	12.0	-11.9	16.9	315.
10.0	1540.	3582.	13.5	-13.4	19.0	315.
10.5	1616.	3658.	13.6	-15.1	20.3	318.
11.0	1692.	3734.	12.4	-15.4	19.8	321.
11.5	1769.	3811.	11.4	-16.4	20.0	325.
12.0	1845.	3887.	9.8	-16.4	19.2	329.
12.5	1921.	3963.	10.6	-16.0	19.2	327.
13.0	1997.	4039.	10.8	-16.0	19.3	326.
13.5	2073.	4115.	12.4	-19.3	22.9	327.
14.0	2150.	4192.	11.0	-18.3	21.3	329.
14.5	2226.	4268.	11.5	-20.1	23.2	330.
15.0	2303.	4345.	10.1	-17.6	20.3	330.

COL CB TRACT ELEV 2042 METERS SOUNDING ID 3399

DATE 01/17/77 TIME 14:00MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

TIME MIN	HEIGHT M (AGL)	HEIGHT M (MSL)	TEMP DEG C	D/T STD	D/T 300M	D/T LAPSE	WS M/S	WD DEG
	SFC		9.32		0.0		2.6	225.
0.9	150	2192	7.15	-2.18	-2.77	0.16	3.3	104.
1.8	300	2342	5.70	-1.44	-2.97	-0.04	1.5	141.
2.8	458.	2500.	4.26	-1.42	-2.24	0.69	1.9	204.
3.1	500	2542	3.81	-0.47	-3.18	-0.25	2.3	222.
6.0	958.	3000.	-0.22	-3.02	-2.27	0.66	5.6	318.
12.1	1958.	4000.	-7.80	-7.69	-2.51	0.42		
13.5	*2170	4212	-8.29		1.35	4.28		
15.3	*2437	4479	-5.94		-0.39	2.54		
18.7	2958.	5000.	-7.80	-0.01	-0.58	2.35		
25.0	3958.	6000.	-13.54	-5.73	-2.54	0.38		

COL CB TRACT ELEV 2042 METERS SOUNDING ID 3399

DATE 01/17/77 TIME 14:00MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

TIME MIN	HEIGHT M (AGL)	HEIGHT M (MSL)	U-COMP M/S	V-COMP M/S	WND SPEED M/S	WND DIR DEG
0.0	0.	2042.	1.8	1.8	2.6	225.
0.5	76.	2118.	-1.5	-1.5	2.1	45.
1.0	179.	2221.	-2.9	2.3	3.7	127.
1.5	255.	2297.	-1.5	1.0	1.8	123.
2.0	331.	2373.	-0.6	1.2	1.4	153.
2.5	408.	2450.	-0.1	1.3	1.3	176.
3.0	488.	2530.	1.5	1.8	2.3	221.
3.5	569.	2611.	1.6	1.4	2.1	229.
4.0	647.	2689.	3.9	-0.0	3.9	271.
4.5	724.	2766.	3.9	-2.6	4.6	304.
5.0	800.	2842.	4.1	-2.8	5.0	305.
5.5	876.	2918.	4.1	-3.9	5.6	313.
6.0	952.	2994.	3.8	-4.1	5.6	318.
6.5	1029.	3071.	3.0	-4.9	5.8	328.
7.0	1105.	3147.	3.0	-6.5	7.2	335.
7.5	1181.	3223.	3.8	-8.7	9.4	336.
8.0	1257.	3299.	3.7	-8.9	9.7	338.
8.5	1334.	3376.	6.0	-11.9	13.3	333.
9.0	1410.	3452.	7.0	-12.8	14.6	331.
9.5	1486.	3528.	8.4	-15.5	17.7	331.
10.0	1562.	3604.	8.3	-15.9	18.0	333.
10.5	1642.	3684.	8.5	-17.0	19.0	334.
11.0	1737.	3779.	8.6	-17.8	19.8	334.
11.5	1846.	3888.	10.6	-21.2	23.7	333.

COL CB TRACT ELEV 2042 METERS SOUNDING ID 3390

DATE 01/19/77 TIME 08:15MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

TIME MIN	HEIGHT M (AGL)	HEIGHT M (MSL)	TEMP DEG C	D/T STD	D/T 300M	D/T LAPSE	WS M/S	WD DEG
	SFC		13.92		0.0		0.5	315.
0.7	150	2192	10.39	-3.53	-4.37	-1.44	4.4	100.
1.2	300	2342	9.33	-1.07	-3.29	-0.37	4.9	108.
2.1	458.	2500.	7.18	-1.47	-4.79	-1.87	2.2	121.
2.4	500	2542	7.21	-0.65	-4.79	-1.87	2.3	85.
5.1	958.	3000.	3.03	-3.79	-2.24	0.68	7.1	3.
11.6	1958.	4000.	-0.13	-2.57	-3.39	-0.47	8.8	278.
18.0	2958.	5000.	-4.96	-5.80	-3.07	-0.14		
23.9	3958.	6000.	-13.24	-8.29	-4.31	-1.39		

COL CB TRACT ELEV 2042 METERS SOUNDING ID 3390

DATE 01/19/77 TIME 08:15MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

TIME MIN	HEIGHT M (AGL)	HEIGHT M (MSL)	U-COMP M/S	V-COMP M/S	WND SPEED M/S	WND DIR DEG
0.0	0.	2042.	0.4	-0.4	0.5	315.
0.5	76.	2118.	-3.0	0.5	3.1	99.
1.0	246.	2288.	-6.1	1.3	6.2	102.
1.5	360.	2402.	-3.2	1.4	3.5	114.
2.0	440.	2482.	-1.5	1.6	2.2	137.
2.5	522.	2564.	-2.2	-1.0	2.4	66.
3.0	637.	2679.	0.6	-3.4	3.5	351.
3.5	719.	2761.	-0.3	-5.3	5.3	3.
4.0	796.	2838.	-0.2	-6.1	6.1	2.
4.5	874.	2916.	-0.1	-7.0	7.0	1.
5.0	950.	2992.	-0.3	-7.0	7.0	3.
5.5	1026.	3068.	-0.4	-7.6	7.6	3.
6.0	1103.	3145.	-0.4	-7.3	7.4	3.
6.5	1179.	3221.	-0.1	-8.1	8.1	1.
7.0	1255.	3297.	0.1	-7.8	7.8	360.
7.5	1331.	3373.	0.5	-7.5	7.6	356.
8.0	1407.	3449.	1.1	-7.5	7.6	351.
8.5	1484.	3526.	0.3	-7.4	7.4	358.
9.0	1560.	3602.	0.1	-7.3	7.3	359.
9.5	1636.	3678.	2.4	-6.7	7.1	341.
10.0	1712.	3754.	5.1	-6.6	8.3	322.
10.5	1788.	3830.	7.7	-6.4	10.0	310.
11.0	1865.	3907.	8.2	-5.6	9.9	305.
11.5	1941.	3983.	8.4	-1.3	8.5	279.
12.0	2034.	4076.	10.1	-1.2	10.2	277.
12.5	2118.	4160.	11.7	-1.8	11.9	279.
13.0	2194.	4236.	11.0	-5.0	12.1	294.

COL CB TRACT ELEV 2042 METERS SOUNDING ID 3383

DATE 01/19/77 TIME 14:20MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

TIME MIN	HEIGHT M (AGL)	HEIGHT M (MSL)	TEMP DEG C	D/T STD	D/T 300M	D/T LAPSE	WS M/S	WD DEG
	SFC		-8.39		0.0		2.6	225.
1.0	150	2192	-1.49	6.90	7.42	10.35	2.3	271.
2.0	300	2342	3.28	4.78	7.33	10.26	1.3	252.
2.0	* 304	2346	3.31		7.33	10.26		
3.0	458.	2500.	2.55	-0.32	-3.18	-0.26	0.8	269.
3.3	500	2542	2.58	-0.39	-3.18	-0.26	1.0	280.
6.1	958.	3000.	-1.18	-3.94	-1.71	1.22	0.9	284.
11.0	*1709	3751	-5.45		1.73	4.65		
12.3	*1899	3941	-3.12		0.96	3.88		
12.6	1958.	4000.	-3.99	-1.95	-0.19	2.74	12.2	324.
19.2	2958.	5000.	-7.90	-4.59	-0.58	2.35		
25.5	3958.	6000.	-14.54	-6.64	-1.57	1.36		

COL CB TRACT ELEV 2042 METERS SOUNDING ID 3383

DATE 01/19/77 TIME 14:20MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

TIME MIN	HEIGHT M (AGL)	HEIGHT M (MSL)	U-COMP M/S	V-COMP M/S	WND SPEED M/S	WND DIR DEG
0.0	0.	2042.	1.8	1.8	2.6	225.
0.5	76.	2118.	1.8	-0.3	1.8	281.
1.0	152.	2194.	2.3	-0.0	2.3	271.
1.5	229.	2271.	1.3	0.3	1.4	255.
2.0	305.	2347.	1.3	0.4	1.3	252.
2.5	381.	2423.	1.1	0.4	1.2	251.
3.0	457.	2499.	0.8	0.0	0.8	269.
3.5	533.	2575.	1.1	-0.4	1.2	288.
4.0	612.	2654.	1.3	-0.6	1.4	295.
4.5	688.	2730.	0.7	-0.4	0.8	301.
5.0	764.	2806.	0.1	-0.9	0.9	357.
5.5	855.	2897.	0.2	-1.0	1.0	350.
6.0	942.	2984.	0.6	-0.2	0.7	286.
6.5	1018.	3060.	2.0	-0.2	2.0	275.
7.0	1094.	3136.	3.4	-1.7	3.9	297.
7.5	1176.	3218.	3.3	-3.2	4.6	314.
8.0	1252.	3294.	3.8	-3.6	5.3	314.
8.5	1328.	3370.	4.7	-5.0	6.9	317.
9.0	1404.	3446.	5.8	-7.0	9.1	320.
9.5	1481.	3523.	9.5	-11.0	14.6	319.
10.0	1557.	3599.	4.7	-8.7	9.9	331.
10.5	1633.	3675.	6.9	-10.3	12.5	326.
11.0	1709.	3751.	6.7	-10.4	12.4	327.
11.5	1785.	3827.	6.9	-10.8	12.8	327.
12.0	1862.	3904.	6.2	-10.1	11.8	328.
12.5	1938.	3980.	6.0	-9.9	12.0	325.
13.0	2014.	4056.	8.2	-9.6	12.6	320.
13.5	2090.	4132.	8.7	-9.1	12.6	316.
14.0	2166.	4208.	10.8	-10.0	14.7	313.
14.5	2243.	4285.	9.4	-8.5	12.7	312.
15.0	2319.	4361.	8.7	-9.1	12.6	316.

COL CB TRACT ELEV 2042 METERS SOUNDING ID 3388

DATE 01/21/77 TIME 08:15MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

TIME MIN	HEIGHT M (AGL)	HEIGHT M (MSL)	TEMP DEG C	D/T STD	D/T 300M	D/T LAPSE	WS M/S	WD DEG
	SFC		-7.12		0.0		0.5	90.
1.3	150	2192	0.40	7.52	11.95	14.88	4.5	106.
1.5	266	2308	1.98		0.75	3.68		
2.0	300	2342	1.89	1.48	-0.56	2.36	3.6	124.
3.0	458.	2500.	0.74	-1.03	-0.19	2.74	2.5	163.
3.3	500	2542	0.74	-0.11	-0.19	2.74	3.4	174.
5.3	958.	3000.	0.55	-0.19	-2.45	0.48	8.7	198.
12.8	1958.	4000.	-8.77	-5.32	-1.72	1.20	8.9	215.
19.4	2958.	5000.	-11.35	-6.59	-2.54	0.39		
25.4	3958.	6000.	-21.33	-10.02	-4.18	-1.26		

COL CB TRACT ELEV 2042 METERS SOUNDING ID 3388

DATE 01/21/77 TIME 08:15MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

TIME MIN	HEIGHT M (AGL)	HEIGHT M (MSL)	U-COMP M/S	V-COMP M/S	WND SPEED M/S	WND DIR DEG
0.0	0.	2042.	-0.5	-0.0	0.5	90.
0.5	76.	2118.	-4.5	1.0	4.6	103.
1.0	152.	2194.	-4.3	1.2	4.5	106.
1.5	229.	2271.	-2.7	0.4	2.8	99.
2.0	305.	2347.	-3.0	2.1	3.6	125.
2.5	381.	2423.	-1.4	2.1	2.5	147.
3.0	457.	2499.	-0.7	2.3	2.4	163.
3.5	533.	2575.	0.2	4.1	4.1	182.
4.0	610.	2652.	1.3	5.3	5.4	192.
4.5	686.	2728.	3.9	7.5	8.4	208.
5.0	762.	2804.	4.6	8.0	9.2	210.
5.5	838.	2880.	3.0	8.6	9.1	199.
6.0	914.	2956.	2.4	9.5	9.8	194.
6.5	991.	3033.	2.9	7.3	7.9	201.
7.0	1067.	3109.	2.9	5.4	6.1	209.
7.5	1143.	3185.	3.5	5.0	6.1	215.
8.0	1219.	3261.	3.3	4.4	5.5	217.
8.5	1295.	3337.	3.3	4.3	5.4	218.
9.0	1372.	3414.	3.4	4.5	5.7	217.
9.5	1448.	3490.	3.0	5.0	5.9	211.
10.0	1524.	3566.	3.5	5.8	6.8	211.
10.5	1600.	3642.	3.4	7.4	8.2	205.
11.0	1676.	3718.	4.0	7.7	8.7	207.
11.5	1753.	3795.	4.7	8.6	9.8	209.
12.0	1829.	3871.	5.1	7.8	9.3	213.
12.5	1905.	3947.	5.3	7.5	9.2	216.
13.0	1981.	4023.	5.0	7.2	8.8	215.
13.5	2057.	4099.	5.1	6.7	8.4	218.
14.0	2135.	4177.	5.1	6.1	7.9	220.

COL CR TRACT ELEV 2042 METERS SOUNDING ID 3400

DATE 01/21/77 TIME 14:00MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

TIME MIN	HEIGHT M (AGL)	HEIGHT M (MSL)	TEMP DEG C	D/T STD	D/T 300M	D/T LAPSE	WS M/S	WD DEG
	SFC		2.52		0.0		5.1	200.
0.5	160.	2192.	7.55	-2.17	-3.70	-0.78	5.3	192.
1.0	340.	2382.	6.21	-1.12	-2.42	-0.51	5.9	199.
1.5	458.	2500.	4.34	-1.80	-3.75	-0.62	6.0	195.
2.0	500.	2542.	4.34	-0.24	-3.75	-0.62	5.8	196.
3.0	958.	3000.	0.36	-3.54	-1.71	1.22	5.8	230.
12.3	1958.	4000.	-5.71	-5.51	-1.35	1.58	6.6	213.
18.7	2958.	5000.	-13.01	-7.33	-2.56	0.37		
25.2	3458.	5500.	-20.18	-7.18	-2.79	0.14		

COL CR TRACT ELEV 2042 METERS SOUNDING ID 3400

DATE 01/21/77 TIME 14:00MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

TIME MIN	HEIGHT M (AGL)	HEIGHT M (MSL)	U-COMP M/S	V-COMP M/S	WND SPEED M/S	WND DIR DEG
0.0	0.	2042.	1.3	4.8	5.1	200.
0.5	75.	2117.	0.2	3.8	3.8	183.
1.0	182.	2224.	1.6	5.7	5.9	195.
1.5	267.	2309.	2.2	6.6	6.9	199.
2.0	343.	2385.	2.1	6.8	6.7	198.
2.5	418.	2461.	1.6	6.0	6.2	195.
3.0	500.	2542.	1.5	5.6	5.8	196.
3.5	595.	2637.	1.0	5.4	5.5	197.
4.0	686.	2728.	2.9	4.1	5.1	210.
4.5	762.	2804.	3.8	2.8	4.1	228.
5.0	838.	2880.	3.9	3.1	5.0	232.
5.5	915.	2957.	5.1	2.5	5.7	244.
6.0	991.	3033.	5.7	2.5	5.8	220.
6.5	1067.	3109.	5.9	4.7	7.6	231.
7.0	1143.	3185.	5.5	7.0	8.9	218.
7.5	1219.	3261.	4.3	5.6	7.1	217.
8.0	1295.	3338.	3.3	5.6	6.5	211.
8.5	1372.	3414.	2.3	5.0	6.3	196.
9.0	1448.	3490.	3.1	5.7	6.5	209.
9.5	1524.	3566.	3.6	6.1	7.1	210.
10.0	1606.	3648.	3.8	6.1	7.2	212.
10.5	1689.	3731.	4.1	6.1	7.4	214.
11.0	1766.	3808.	3.8	5.9	7.1	213.
11.5	1842.	3884.	3.5	5.4	6.5	213.
12.0	1918.	3960.	3.6	5.5	6.5	213.
12.5	1994.	4036.	3.6	5.5	6.6	213.
13.0	2071.	4113.	3.7	5.5	6.6	214.
13.5	2147.	4189.	4.6	6.0	7.6	218.
14.0	2223.	4265.	5.0	6.9	8.5	216.
14.5	2299.	4341.	4.1	7.8	8.8	208.
15.0	2375.	4417.	3.3	8.5	9.2	201.
15.5	2453.	4495.	3.6	8.8	9.5	202.

[illegible] ELEV 2042 METERS SOUNDING ID 3386

DATE 01/23/77 [illegible] ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

TIME MIN	HEIGHT M (AGL)	HEIGHT M (MSL)	TEMP DEG C	D/T STD	D/T 500M	D/T LAPSE	WS M/S	WD DEG
	SFC		-5.38		0.0		M	M
0.0	150	2192	-3.57	-2.13	-2.51	0.52	M	M
1.0	300	2342	-3.12	-0.55	-0.58	2.35	M	M
2.0	458.	2500.	-2.80	-0.49	-0.77	2.16	M	M
4.2	500	2542	-4.61	-0.00	-0.77	2.15	M	M
6.2	958.	3000.	-12.16	-2.50	-2.33	0.59	M	M
12.7	1958.	4000.	-19.35	-1.68	-2.37	0.55		
18.8	2958.	5000.	-25.71	-5.46	-3.80	-0.07		

COL CB TRACT ELEV 2042 METERS SOUNDING ID 3386

DATE 01/23/77 TIME [illegible]MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

TIME MIN	HEIGHT M (AGL)	HEIGHT M (MSL)	U-COMP M/S	V-COMP M/S	WND SPEED M/S	WND DIR DEG

THE WIND DATA ARE MISSING

COL CB TRACT ELEV 2042 METERS SOUNDING ID 3392

DATE 01/23/77 TIME 14:00MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

TIME MIN	HEIGHT M (AGL)	HEIGHT M (MSL)	TEMP DEG C	D/T STD	D/T 300M	D/T LAPSE	WS M/S	WD DEG
	SFC		2.03		0.0		0.5	315.
0.0	150	2192	0.52	-2.31	-1.52	1.41	M	M
1.0	300	2342	-0.13	-0.75	-2.23	0.64	M	M
2.5	458.	2500.	-1.43	-1.80	-4.01	-1.09	M	M
3.0	500	2542	-2.04	-0.15	-3.44	-0.52	M	M
5.2	958.	3000.	-5.75	-1.67	-0.77	2.16	M	M
12.1	1958.	4000.	-11.94	-8.19	-1.96	0.97		
13.5	2058.	5000.	-16.55	-4.41	-1.78	1.15		
24.0	3958.	6000.	-22.74	-5.37	-1.40	1.52		

COL CB TRACT ELEV 2042 METERS SOUNDING ID 3392

DATE 01/23/77 TIME 14:00MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

TIME MIN	HEIGHT M (AGL)	HEIGHT M (MSL)	U-COMP M/S	V-COMP M/S	WND SPEED M/S	WND DIR DEG
0.0	0.	2042.	0.4	-0.4	0.5	315.

COL CO TRACT FLEV 2042 METERS SOUNDING ID 3391

DATE 01/25/77 TIME 08:00MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

TIME MIN	HEIGHT M (AGL)	HEIGHT M (MSL)	T DEG C	D/T STD	D/T 300M	D/T LAPSE	WS M/S	WD DEG
	SFC		-10.74		0.0		2.6	180.
1.0	150	2192	-11.37	5.68	5.07	8.00	4.3	95.
1.5	* 228	2270	-9.97		2.14	5.07		
2.0	300	2342	-9.78	1.00	2.52	3.45	1.7	111.
3.0	458.	2500.	-9.77	0.24	-3.11	+0.18	3.2	190.
3.3	500	2542	-9.76	+0.22	-3.11	+0.18	3.1	192.
6.3	958.	3000.	-12.15	-2.39	-2.54	0.39	2.3	233.
12.8	1358.	4000.	-19.06	-6.01	-0.79	2.15	8.0	268.
10.2	2958.	5000.	-26.26	-7.21	-3.01	+0.09		

COL CO TRACT FLEV 2042 METERS SOUNDING ID 3391

DATE 01/25/77 TIME 08:00MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

TIME MIN	HEIGHT M (AGL)	HEIGHT M (MSL)	U-COMP M/S	V-COMP M/S	WND SPEED M/S	WND DIR DEG
0.0	0.	2042.	-0.0	2.6	2.6	180.
0.5	76.	2118.	-1.5	1.3	2.0	130.
1.0	152.	2194.	-4.4	0.3	4.4	93.
1.5	229.	2271.	-2.4	1.1	2.6	114.
2.0	305.	2347.	-1.5	0.6	1.6	111.
2.5	381.	2423.	0.0	6.0	6.1	189.
3.0	457.	2499.	0.5	3.2	3.2	190.
3.5	535.	2577.	0.7	2.8	2.9	193.
4.0	612.	2654.	0.9	3.2	3.3	196.
4.5	689.	2731.	0.6	2.6	2.7	193.
5.0	765.	2807.	0.9	1.7	1.9	207.
5.5	841.	2883.	1.5	1.1	1.9	232.
6.0	917.	2959.	1.5	1.4	2.0	227.
6.5	993.	3035.	2.2	1.4	2.6	238.
7.0	1070.	3112.	2.7	0.4	2.7	261.
7.5	1146.	3188.	2.3	-0.3	2.3	277.
8.0	1222.	3264.	3.1	-0.1	3.1	271.
8.5	1298.	3340.	4.0	-1.4	4.3	289.
9.0	1374.	3416.	4.0	-1.9	4.4	296.
9.5	1451.	3493.	3.6	-3.4	5.0	314.
10.0	1527.	3569.	5.7	-4.3	7.1	307.
10.5	1603.	3645.	5.4	-2.7	6.1	296.
11.0	1679.	3721.	6.5	-2.5	6.9	291.
11.5	1755.	3797.	7.0	-3.2	7.7	295.
12.0	1832.	3874.	7.8	-3.4	8.2	295.
12.5	1908.	3950.	7.5	-2.5	7.9	288.
13.0	1984.	4026.	7.7	-2.6	8.1	287.
13.5	2060.	4102.	9.9	-3.1	10.4	287.
14.0	2136.	4178.	9.5	-3.5	10.1	290.
14.5	2213.	4255.	10.2	-4.9	11.3	296.

COL CR TRACT ELEV 2042 METERS SOUNDING ID 3390

DATE 01/25/77 TIME 14:00MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

TIME MIN	HEIGHT M (AGL)	HEIGHT M (MSL)	TEMP DEG C	D/T STD	D/T 300M	D/T LAPSE	WS M/S	WD DEG
	SFC		-4.17		0.0		5.1	200.
1.0	150.	2192.	-3.21	-0.95	-2.52	0.31	3.9	201.
2.0	300.	2342.	-2.17	-1.04	-2.26	0.67	4.6	203.
2.8	458.	2500.	-0.13	-2.25	-4.35	-1.42	6.4	206.
3.0	500.	2542.	-0.12	-0.03	-4.35	-1.42	7.0	204.
5.8	958.	3000.	-3.51	-3.37	-1.34	1.59	6.6	226.
12.3	1958.	4000.	-8.39	-4.88	-0.19	2.73	9.9	300.
18.3	2958.	5000.	-15.44	-7.05	-5.55	-0.62		

COL CR TRACT ELEV 2042 METERS SOUNDING ID 3390

DATE 01/25/77 TIME 14:00MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

TIME MIN	HEIGHT M (AGL)	HEIGHT M (MSL)	U-COMP M/S	V-COMP M/S	WND SPEED M/S	WND DIR DEG
0.0	0.	2042.	1.8	-4.8	5.1	200.
0.5	76.	2118.	1.7	-4.8	5.1	199.
1.0	152.	2194.	1.4	-3.6	3.9	201.
1.5	229.	2271.	1.3	-4.3	4.5	197.
2.0	305.	2347.	1.8	-4.2	4.6	204.
2.5	381.	2423.	2.5	-4.7	5.3	209.
3.0	508.	2550.	2.9	-5.5	7.1	204.
3.5	802.	2844.	2.5	-5.3	5.9	206.
4.0	678.	2720.	2.3	-4.6	5.1	207.
4.5	754.	2796.	2.5	-4.6	5.3	208.
5.0	830.	2872.	4.2	-3.9	5.8	227.
5.5	906.	2948.	4.7	-4.3	6.4	228.
6.0	983.	3025.	4.8	-4.8	6.8	225.
6.5	1059.	3101.	4.4	-3.9	5.9	229.
7.0	1135.	3177.	5.4	-3.3	6.3	238.
7.5	1211.	3253.	5.1	-4.4	6.7	229.
8.0	1287.	3329.	5.4	-3.9	6.7	234.
8.5	1374.	3416.	5.2	-3.6	6.3	235.
9.0	1451.	3493.	4.2	-2.8	5.0	236.
9.5	1527.	3569.	4.4	-2.0	4.8	246.
10.0	1603.	3645.	5.6	-0.8	5.6	262.
10.5	1679.	3721.	8.1	-0.1	8.1	269.
11.0	1755.	3797.	8.9	-1.9	9.1	282.
11.5	1832.	3874.	8.3	-2.8	8.7	288.
12.0	1908.	3950.	8.9	-4.4	9.9	297.
12.5	1984.	4026.	8.5	-5.1	10.0	301.
13.0	2060.	4102.	10.2	-6.3	12.2	301.

COL CB [illegible]ALT ELEV 2042 METERS SOUNDING ID 3389

DATE 01/27/77 TIME [illegible]:00MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

TIME MIN	HEIGHT M (AGL)	HEIGHT M (MSL)	TEMP DEG C	D/T STD	D/T 500M	D/T LAPSE	WS M/S	WD DEG
	SFC		-13.34		0.0		0.5	180.
1.0	150	2192	-7.55	5.80	7.54	10.46	4.4	102.
1.8	* 266	2308	-5.35		0.38	3.31		
2.0	300	2342	-5.25	1.59	0.38	3.31	4.0	121.
2.8	456.	2500.	-5.08	1.15	-0.58	2.35	4.4	200.
3.3	500	2542	-5.06	-0.25	-0.58	2.35	3.4	208.
3.3	456.	3006.	-7.42	-2.39	-1.16	1.77	5.6	262.
12.8	1952.	4000.	-11.95	-4.53	-1.75	1.17		
10.1	2958.	5000.	-16.14	-4.19	-1.97	0.96	8.5	180.

COL CB TRACT ELEV 2042 METERS SOUNDING ID 3389

DATE 01/27/77 TIME 08:00MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

TIME MIN	HEIGHT M (AGL)	HEIGHT M (MSL)	U-COMP M/S	V-COMP M/S	WND SPEED M/S	WND DIR DEG
0.0	0.	2042.	-0.0	0.5	0.5	180.
0.5	76.	2118.	-1.2	1.6	1.9	143.
1.0	152.	2194.	-4.4	0.8	4.5	101.
1.5	229.	2271.	-4.8	1.0	4.9	102.
2.0	305.	2347.	-3.3	2.1	4.0	122.
2.5	381.	2423.	-0.3	3.3	3.3	175.
3.0	457.	2499.	1.5	4.1	4.4	200.
3.5	533.	2575.	1.5	2.2	2.7	213.
4.0	610.	2652.	0.1	1.9	1.9	184.
4.5	686.	2728.	0.6	0.4	0.7	235.
5.0	762.	2804.	0.4	1.2	1.2	198.
5.5	838.	2880.	1.1	2.0	2.3	209.
6.0	914.	2956.	4.6	2.1	5.0	246.
6.5	991.	3033.	6.0	-0.4	6.0	273.
7.0	1067.	3109.	7.5	-0.3	7.5	273.
7.5	1143.	3185.	5.7	1.0	5.8	260.

COL CB TRACT ELEV 2042 METERS SOUNDING ID 3382

DATE 01/27/77 TIME 14:00MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

TIME MIN	HEIGHT M (AGL)	HEIGHT M (MSL)	TEMP DEG C	D/T SEC	D/T 500M	D/T LAPSE	WS M/S	WD DEG
	SFC		5.66		0.0		2.6	180.
0.3	150.	2192.	5.27	-2.11	-2.99	-0.06	4.5	211.
1.0	330.	2372.	1.93	-1.34	-4.89	-1.96	1.8	217.
2.0	458.	2500.	0.07	-1.23	-4.53	-1.60	2.8	218.
2.0	500.	2542.	-0.02	-0.12	-2.65	0.28	3.3	220.
5.1	958.	3000.	-5.26	-4.63	-3.84	-0.91	5.4	261.
10.8	1958.	4000.	-13.74	-8.20	-2.35	0.58	16.7	307.

COL CB TRACT ELEV 2042 METERS SOUNDING ID 3382

DATE 01/27/77 TIME 14:00MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

TIME MIN	HEIGHT M (AGL)	HEIGHT M (MSL)	U-COMP M/S	V-COMP M/S	WND SPEED M/S	AND DIR DEG
0.0	0.	2042.	-0.0	2.6	2.6	180.
0.5	75.	2118.	1.3	2.3	2.6	210.
1.0	206.	2248.	3.1	5.0	5.9	212.
1.5	283.	2325.	1.2	1.6	2.0	216.
2.0	371.	2413.	0.8	0.9	1.2	222.
2.5	481.	2523.	2.0	2.6	3.3	217.
3.0	584.	2626.	2.5	2.0	3.2	231.
3.5	668.	2710.	2.4	1.3	2.7	242.
4.0	744.	2786.	3.1	0.9	3.2	255.
4.5	823.	2865.	3.9	1.0	4.1	255.
5.0	939.	2981.	5.3	1.0	5.4	259.
5.5	1061.	3103.	5.3	-0.2	5.4	272.
6.0	1163.	3205.	6.0	-0.6	6.0	276.
6.5	1240.	3282.	6.0	-3.4	6.9	300.
7.0	1319.	3361.	7.6	-3.6	8.4	295.
7.5	1420.	3462.	9.0	-5.8	10.7	303.
8.0	1507.	3548.	8.1	-3.8	9.0	295.
8.5	1584.	3626.	9.9	-6.3	11.7	303.
9.0	1660.	3702.	11.9	-7.6	14.1	303.
9.5	1735.	3778.	16.1	-10.3	19.1	303.
10.0	1816.	3858.	14.8	-10.1	17.9	305.
10.5	1908.	3950.	13.4	-9.5	16.4	306.
11.0	1998.	4040.	13.4	-10.3	16.9	308.
11.5	2074.	4116.	12.9	-8.4	15.4	303.
12.0	2151.	4193.	13.0	-7.1	14.8	299.
12.5	2227.	4269.	13.3	-6.8	14.9	297.
13.0	2303.	4345.	14.2	-7.8	16.2	299.
13.5	2379.	4421.	15.1	-9.3	17.7	302.

COL CB TRACT ELEV 2042 METERS SOUNDING ID 4116

DATE 01/24/77 TIME 08:00MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

TIME MIN	HEIGHT M (AGL)	HEIGHT M (MSL)	TEMP DEG C	D/T STD	D/T 300M	D/T LAPSE	WS M/S	WD DEG
	SFC		-16.34		0.0		5.1	180.
1.0	159	2192	-7.13	9.21	11.34	14.27	2.1	115.
1.5	* 228	2270	-2.73		8.82	11.75		
2.0	300	2342	-2.64	4.49	1.33	4.26	4.4	170.
3.0	458.	2500.	-2.63	0.13	-1.71	1.21	1.9	198.
3.3	509	2552	-2.63	-0.12	-1.71	1.21	1.9	215.
9.3	958.	3000.	-4.77	-2.12	-2.49	0.44	4.6	279.
12.5	1258.	3300.	-13.14	-8.24	-2.74	0.19	8.1	320.
14.7	2958.	5000.	-19.46	-6.82	-1.59	1.34		
24.2	3958.	6000.	-29.02	-9.56	-3.03	-0.10		

COL CB TRACT ELEV 2042 METERS SOUNDING ID 4116

DATE 01/29/77 TIME 08:00MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

TIME MIN	HEIGHT M (AGL)	HEIGHT M (MSL)	U-COMP M/S	V-COMP M/S	WND SPEED M/S	WND DIR DEG
0.0	0.	2042.	-0.0	5.1	5.1	180.
0.5	76.	2118.	-2.6	0.8	2.7	108.
1.0	152.	2194.	-1.9	0.9	2.1	116.
1.5	229.	2271.	-1.7	3.6	4.0	155.
2.0	305.	2347.	-0.7	4.4	4.4	171.
2.5	381.	2423.	-0.7	3.4	3.4	168.
3.0	457.	2500.	0.6	1.8	1.9	198.
3.5	533.	2575.	1.4	1.3	1.9	228.
4.0	610.	2652.	3.5	0.8	3.6	257.
4.5	686.	2728.	4.4	1.2	4.6	254.
5.0	762.	2804.	3.3	2.2	0.6	251.
5.5	838.	2880.	6.8	3.0	7.4	246.
6.0	914.	2956.	5.6	-0.3	5.6	273.
6.5	991.	3033.	4.1	-1.0	4.2	284.
7.0	1073.	3115.	2.6	-0.4	2.6	279.
7.5	1149.	3191.	1.4	-0.3	1.4	281.
8.0	1225.	3267.	1.8	0.8	1.6	241.
8.5	1301.	3343.	2.0	0.8	2.1	247.
9.0	1377.	3419.	1.7	-0.6	1.8	291.
9.5	1457.	3499.	1.8	-1.3	2.2	305.
10.0	1551.	3593.	1.0	-1.1	2.2	299.
10.5	1649.	3691.	2.5	-1.5	2.9	300.
11.0	1727.	3769.	3.2	-2.8	4.3	311.
11.5	1803.	3845.	4.1	-3.9	5.6	314.
12.0	1881.	3923.	4.5	-5.6	7.1	321.
12.5	1963.	4005.	5.2	-6.2	8.1	320.
13.0	2039.	4081.	5.1	-6.5	8.3	322.
13.5	2115.	4157.	4.8	-5.8	6.8	315.
14.0	2193.	4235.	5.0	-6.8	8.4	323.
14.5	2270.	4312.	7.0	-9.3	11.6	323.

COL C- TRACT ELEV 2002 METERS SOUNDING ID 4126

DATE 01/29/77 TIME 14:00 ST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

TIME MIN	HEIGHT M (AGL)	HEIGHT M (MSL)	TEMP DEG C	D/T STD	D/T SOUN	D/T LAPSE	WS M/S	WD DEG
	SEC		5.58		0.0		2.6	315.
1.0	150	2152	5.78	0.20	-5.37	-2.44	2.7	311.
1.5	300	2302	3.96	-1.62	-2.61	0.32	5.7	301.
2.0	458.	2460.	3.31	-0.65	-1.27	1.06	5.5	307.
2.5	608.	2592	2.85	-0.46	-2.81	0.12	5.6	304.
5.2	958.	3000.	-1.96	-4.61	-2.66	0.27	6.7	300.
11.1	1955.	4000.	-10.66	-3.79	-2.14	0.79	12.1	331.
17.5	2958.	5000.	-16.34	-4.29	0.0	2.93		
23.9	3952.	6000.	-22.59	-7.75	-2.20	0.73		

COL C5 TRACT ELEV 2042 METERS SOUNDING ID 4126

DATE 01/29/77 TIME 14:00MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

TIME MIN	HEIGHT M (AGL)	HEIGHT M (MSL)	U-COMP M/S	V-COMP M/S	WND SPEED M/S	WND DIR DEG
0.0	0.	2042.	1.8	-1.8	2.6	315.
0.5	76.	2118.	2.8	-0.4	2.8	279.
1.0	152.	2194.	2.0	-1.8	2.7	312.
1.5	284.	2326.	4.7	-2.9	5.5	301.
2.0	383.	2425.	5.5	-3.3	6.4	301.
2.5	460.	2502.	4.3	-3.3	5.5	307.
3.0	536.	2578.	4.9	-2.9	5.7	301.
3.5	619.	2661.	5.1	-2.6	5.7	298.
4.0	732.	2774.	5.5	-2.7	7.0	293.
4.5	830.	2872.	5.3	-3.2	7.0	297.
5.0	923.	2965.	5.6	-2.9	6.3	297.
5.5	1010.	3052.	6.1	-4.1	7.4	304.
6.0	1086.	3128.	5.2	-4.3	6.7	310.
6.5	1163.	3205.	5.4	-3.9	6.7	306.
7.0	1239.	3281.	5.3	-5.5	7.6	316.
7.5	1315.	3357.	3.7	-6.4	7.4	330.
8.0	1391.	3433.	3.2	-6.6	7.3	334.
8.5	1473.	3515.	2.5	-6.0	6.5	338.
9.0	1554.	3596.	2.2	-6.0	6.4	340.
9.5	1630.	3672.	2.2	-6.2	6.6	341.
10.0	1718.	3760.	2.1	-6.6	7.0	342.
10.5	1814.	3856.	3.0	-7.1	7.8	337.
11.0	1937.	3979.	5.8	-10.5	12.0	331.
11.5	2031.	4073.	6.6	-10.3	12.2	328.
12.0	2107.	4149.	6.6	-9.6	11.6	325.
12.5	2183.	4225.	7.7	-8.6	11.5	316.
13.0	2259.	4301.	7.7	-7.1	10.5	313.
13.5	2337.	4379.	9.1	-8.0	12.1	311.
14.0	2413.	4455.	9.6	-8.3	12.7	311.
14.5	2489.	4531.	9.5	-7.9	12.3	310.
15.0	2566.	4608.	10.9	-9.1	14.2	310.

COL CR THACT ELEV 2042 METERS SOUNDING ID 4122

DATE 01/31/77 TIME 08:00MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

TIME MIN	HEIGHT M (AGL)	HEIGHT M (MSL)	TEMP DEG C	D/T SID	D/T 500M	D/T LAPSE	WS M/S	WD DEG
	SFC		-13.34		0.0		5.1	135.
1.0	150	2192	-12.26	11.08	7.07	9.99	5.1	99.
2.0	300	2342	-11.57	6.89	3.22	6.15	3.9	132.
3.0	* 457	2499	-10.55		-1.51	1.41		
3.0	456.	2500.	-10.80	1.76	-2.65	0.26	3.5	173.
3.3	500	2542	-10.74	-0.03	-2.65	0.23	3.6	173.
3.3	956.	3000.	-11.76	-1.62	-0.57	2.36	2.0	210.
12.8	1958.	4000.	-18.00	-6.24	-2.13	0.80	12.2	326.
19.3	2958.	5000.	-12.74	-4.74	-1.26	0.97		

COL CR THACT ELEV 2042 METERS SOUNDING ID 4122

DATE 01/31/77 TIME 08:00MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

TIME MIN	HEIGHT M (AGL)	HEIGHT M (MSL)	U-COMP M/S	V-COMP M/S	WND SPEED M/S	WND DIR DEG
0.0	0.	2042.	-3.6	3.6	5.1	135.
0.5	76.	2118.	-3.2	1.4	3.5	114.
1.0	152.	2194.	-5.1	0.8	5.2	99.
1.5	229.	2271.	-3.2	2.0	3.8	122.
2.0	305.	2347.	-2.8	2.7	3.9	133.
2.5	381.	2423.	-0.5	5.4	5.4	175.
3.0	457.	2499.	-0.5	3.4	3.5	173.
3.5	534.	2576.	-0.4	3.7	3.7	174.
4.0	610.	2652.	-0.8	3.5	3.6	167.
4.5	686.	2728.	-2.0	3.6	4.1	151.
5.0	762.	2804.	-2.4	3.4	4.1	145.
5.5	839.	2881.	-0.4	2.6	2.6	171.
6.0	915.	2957.	0.6	1.9	2.0	198.
6.5	991.	3033.	1.3	1.6	2.1	218.
7.0	1067.	3109.	1.2	2.4	2.7	207.
7.5	1143.	3185.	0.5	5.6	5.6	185.
8.0	1220.	3262.	2.1	3.6	4.2	210.
8.5	1296.	3338.	3.9	3.2	5.0	230.
9.0	1372.	3414.	4.9	1.6	5.2	252.
9.5	1448.	3490.	5.2	-0.6	5.2	275.
10.0	1524.	3566.	5.9	-3.1	6.7	298.
10.5	1601.	3643.	6.8	-4.0	7.9	300.
11.0	1677.	3719.	7.1	-5.1	8.8	305.
11.5	1753.	3795.	5.7	-7.2	9.0	317.
12.0	1829.	3871.	5.5	-8.4	10.6	322.
12.5	1905.	3947.	7.0	-11.0	13.0	327.
13.0	1982.	4024.	6.8	-9.7	11.9	325.
13.5	2058.	4100.	7.1	-9.6	11.9	324.
14.0	2134.	4176.	6.9	-9.8	11.7	324.
14.5	2210.	4252.	7.3	-10.8	13.1	326.
15.0	2286.	4328.	8.0	-9.8	12.6	321.

COL CR TRACT ELEV 2042 METERS SOUNDING ID 4123

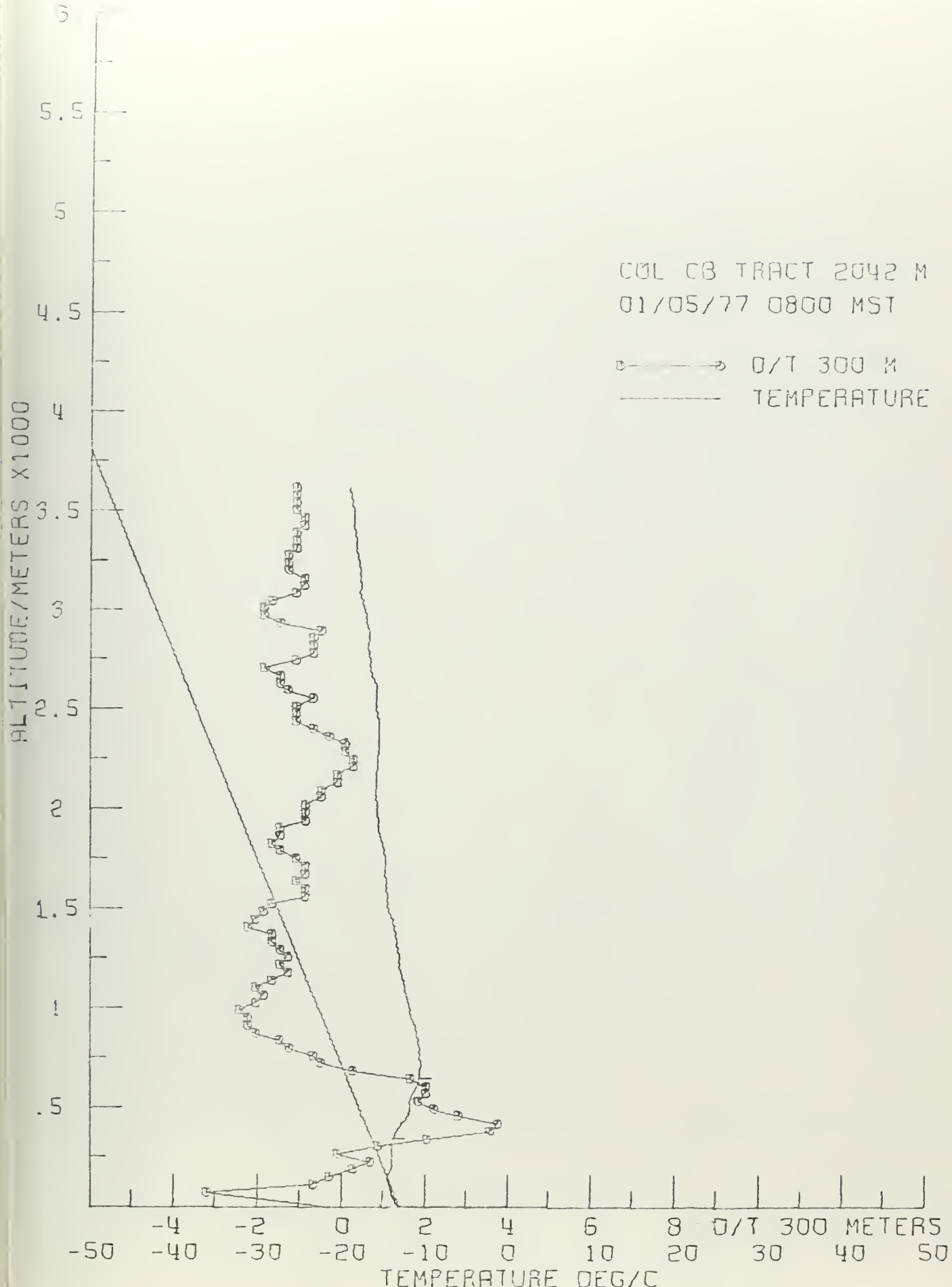
DATE 01/31/77 TIME 14:00MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

TIME MIN	HEIGHT M (AGL)	HEIGHT M (MSL)	TEMP DEG C	D/T SID	D/T 300M	D/T LAPSE	WS M/S	WD DEG
	SFC		10.75		0.0		5.1	180.
0.2	150	2142	8.42	-1.93	-3.49	-0.56	3.7	185.
1.4	300	2342	7.24	-1.55	-2.77	0.16	2.7	188.
2.7	458.	2500.	4.66	-1.60	-5.77	-2.84	1.0	187.
2.6	500	2542	4.90	-0.74	-5.77	-2.84	1.4	164.
5.3	956.	3000.	1.24	-3.65	-2.45	0.48	3.0	223.
11.8	1958.	4000.	-4.86	-6.09	-6.96	1.97	8.3	265.
14.1	2354.	5000.	-11.45	-6.60	-3.32	-0.39		

COL CR TRACT ELEV 2042 METERS SOUNDING ID 4123

DATE 01/31/77 TIME 14:00MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

TIME MIN	HEIGHT M (AGL)	HEIGHT M (MSL)	U-COMP M/S	V-COMP M/S	WND SPEED M/S	WND DIR DEG
0.0	0.	2042.	-0.0	5.1	5.1	180.
0.5	76.	2118.	0.3	3.1	3.1	185.
1.0	163.	2205.	0.3	3.7	3.8	185.
1.5	245.	2287.	0.3	3.2	3.2	185.
2.0	325.	2367.	0.4	2.4	2.4	189.
2.5	412.	2454.	0.1	0.5	0.5	191.
3.0	533.	2575.	0.1	1.8	1.8	182.
3.5	667.	2709.	0.6	3.1	3.1	190.
4.0	755.	2797.	0.3	2.7	2.8	186.
4.5	841.	2883.	0.5	1.8	1.8	195.
5.0	917.	2959.	2.0	1.7	2.6	229.
5.5	993.	3035.	2.0	2.6	3.3	218.
6.0	1072.	3114.	1.3	2.6	2.9	206.
6.5	1154.	3196.	0.9	2.0	2.2	204.
7.0	1230.	3272.	0.8	1.6	1.8	206.
7.5	1307.	3349.	0.7	1.9	2.0	200.
8.0	1383.	3425.	0.9	1.9	2.1	204.
8.5	1459.	3501.	0.8	0.9	1.2	221.
9.0	1536.	3578.	1.0	0.5	1.1	244.
9.5	1612.	3654.	3.4	-1.3	3.7	291.
10.0	1688.	3730.	3.8	-0.8	3.9	282.
10.5	1764.	3806.	6.1	-0.6	6.1	276.
11.0	1840.	3882.	6.3	-0.8	6.4	278.
11.5	1917.	3959.	7.6	-1.8	7.8	284.
12.0	1993.	4035.	8.4	-2.5	8.7	286.
12.5	2069.	4111.	7.7	-3.3	8.4	293.
13.0	2145.	4187.	8.4	-3.8	9.2	295.
13.5	2221.	4263.	8.1	-3.2	8.8	292.
14.0	2298.	4340.	7.1	-2.8	7.6	292.
14.5	2374.	4416.	7.5	-3.8	8.4	297.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01/05/77 0800 MST
O/T 300 M
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5.5
5
4.5
4
3.5
3
2.5
2
1.5
1
.5
-4
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0
2
4
6
8
O/T 300 METERS
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-40
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-20
-10
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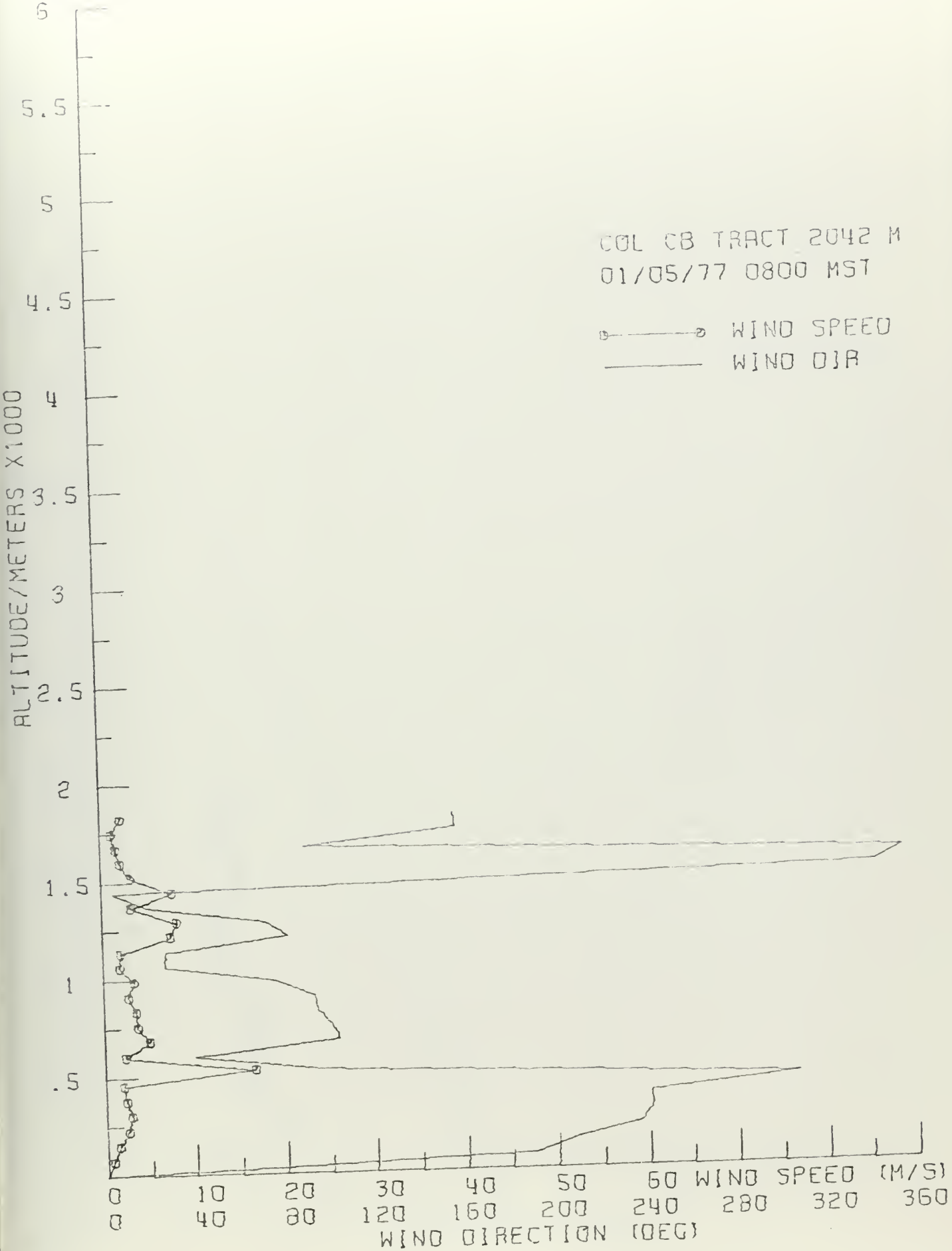
TEMPERATURE DEG/C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01/05/77 0800 MST
WIND SPEED
WIND DIR
ALTITUDE/METERS X1000
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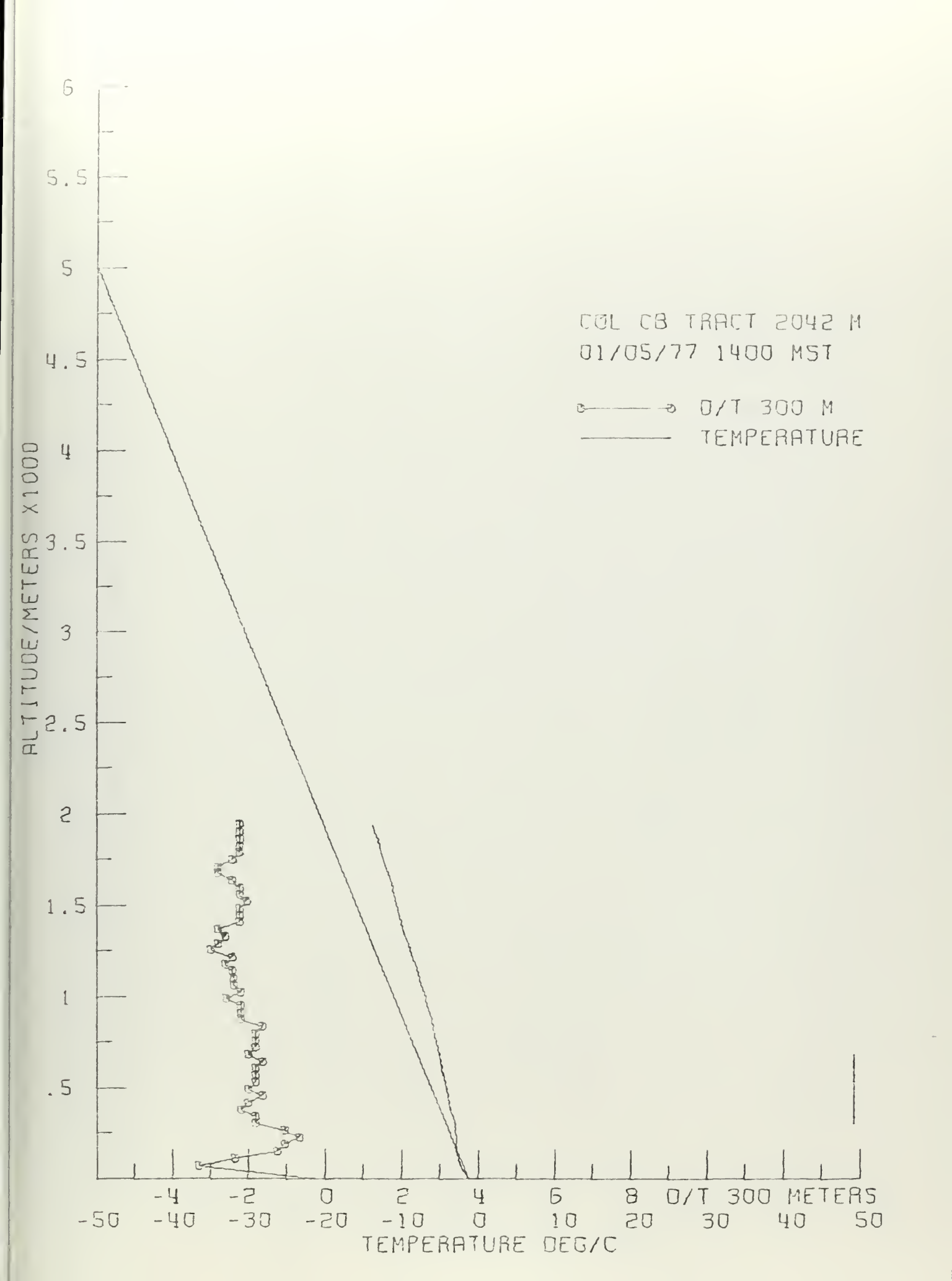
0 40 80 120 160 200 240 280 320 360
WIND DIRECTION (DEG)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O/T 300 M
TEMPERATURE
ALTITUDE/METERS X1000
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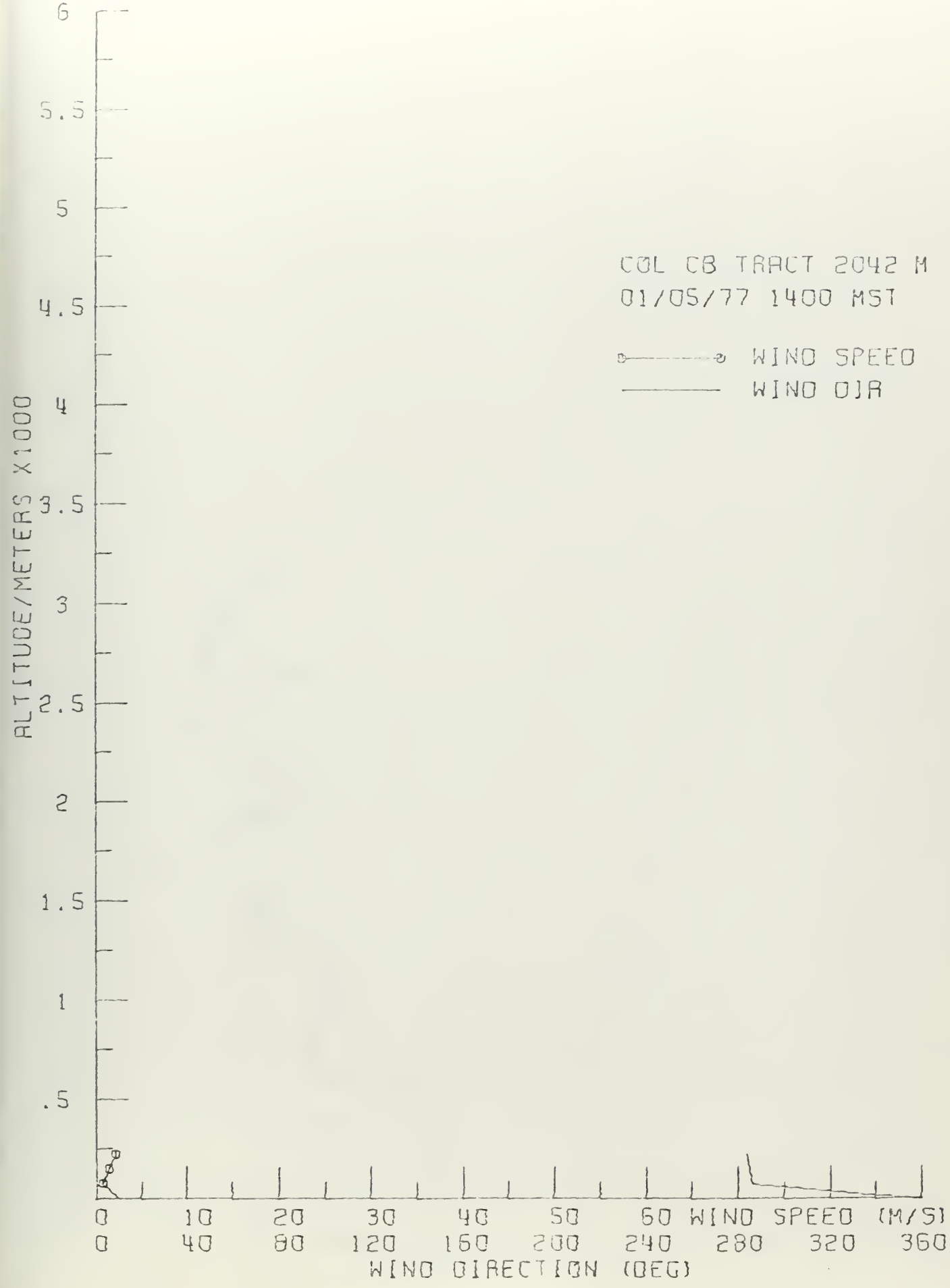
TEMPERATURE DEG/C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01/05/77 1400 MST
WIND SPEED
WIND DIR
ALTITUDE/METERS X1000
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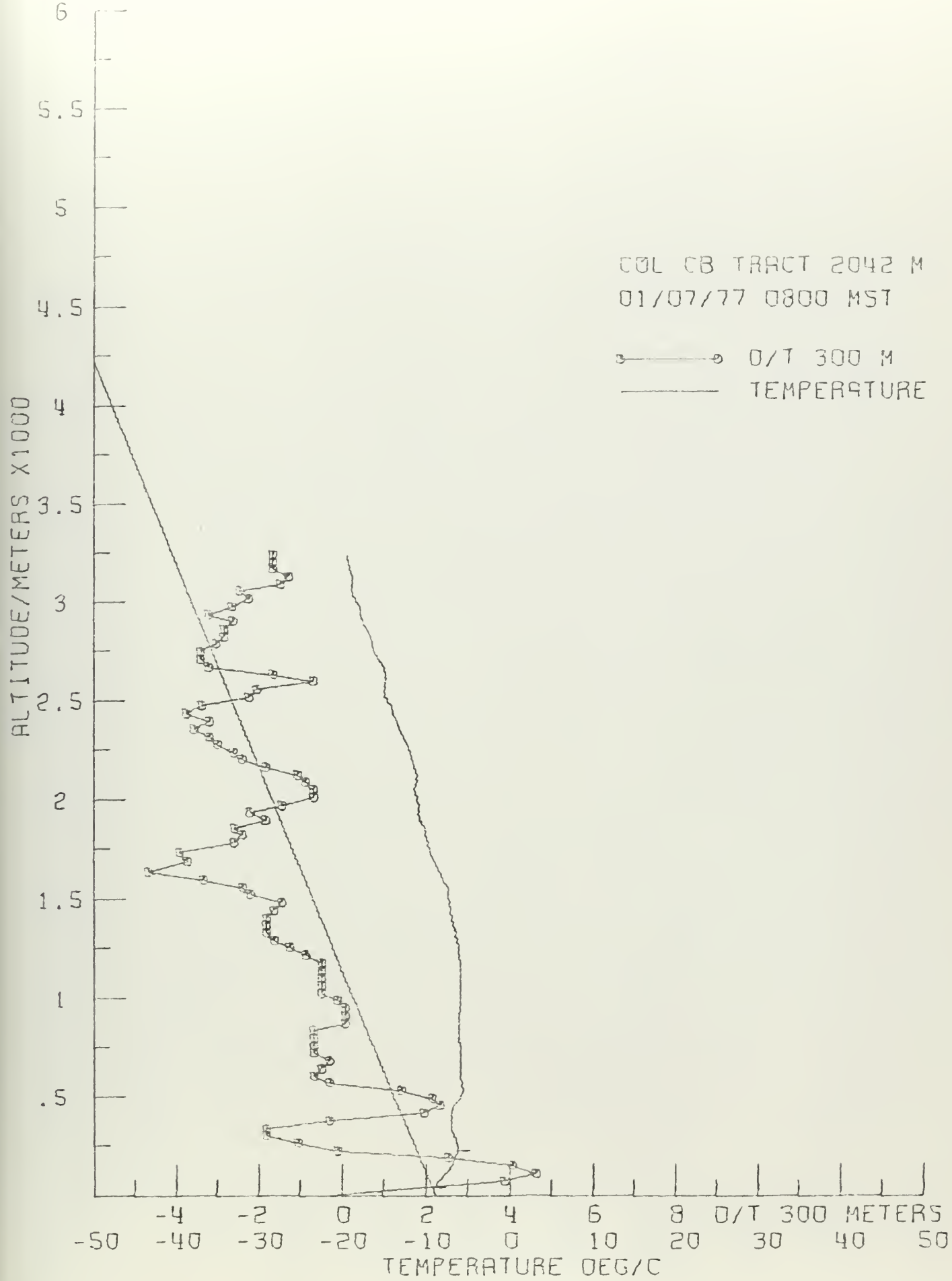
0 10 20 30 40 50 60 WIND SPEED (M/S)
0 40 80 120 160 200 240 280 320 360
WIND DIRECTION (DEG)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01/07/77 0800 MST
O/T 300 M
TEMPERATURE
ALTITUDE/METERS X1000
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O/T 300 METERS
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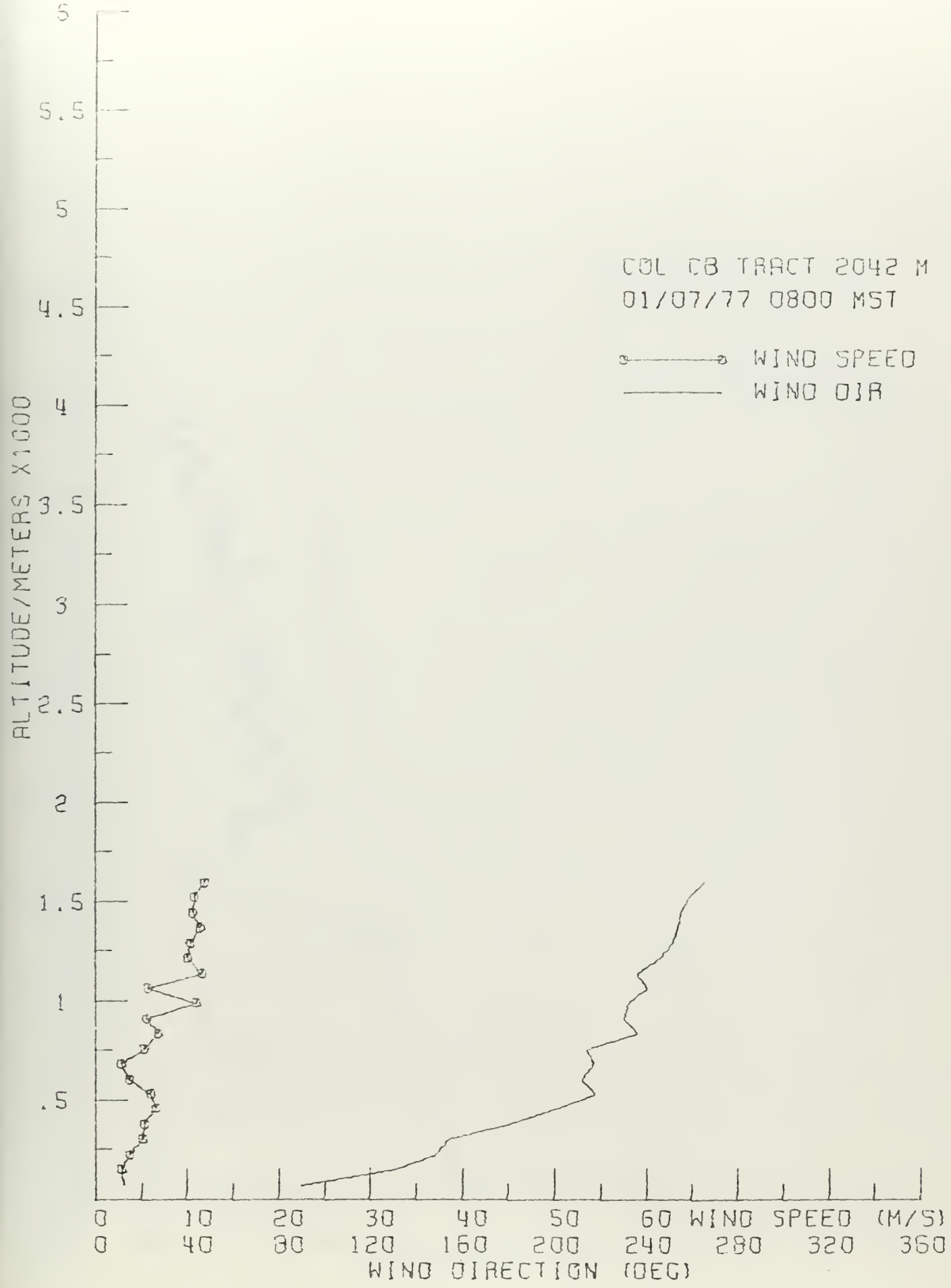
TEMPERATURE DEG/C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01/07/77 0800 MST
WIND SPEED
WIND DIR
ALTITUDE/METERS X1000
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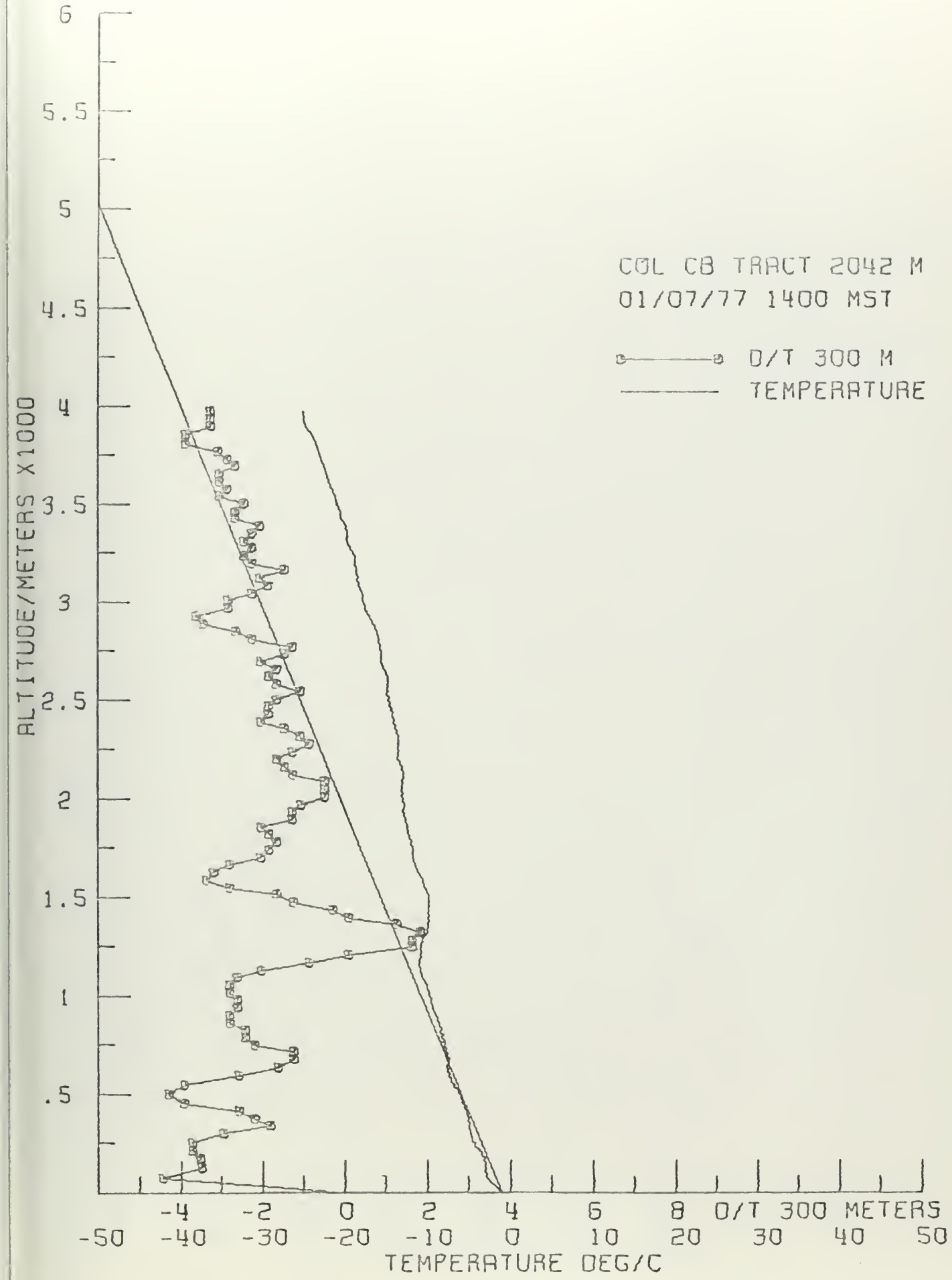
0 10 20 30 40 50 60 WIND SPEED (M/S)
0 40 80 120 160 200 240 280 320 360
WIND DIRECTION (DEG)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01/07/77 1400 MST
O/T 300 M
TEMPERATURE
ALTITUDE/METERS X1000
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O/T 300 METERS
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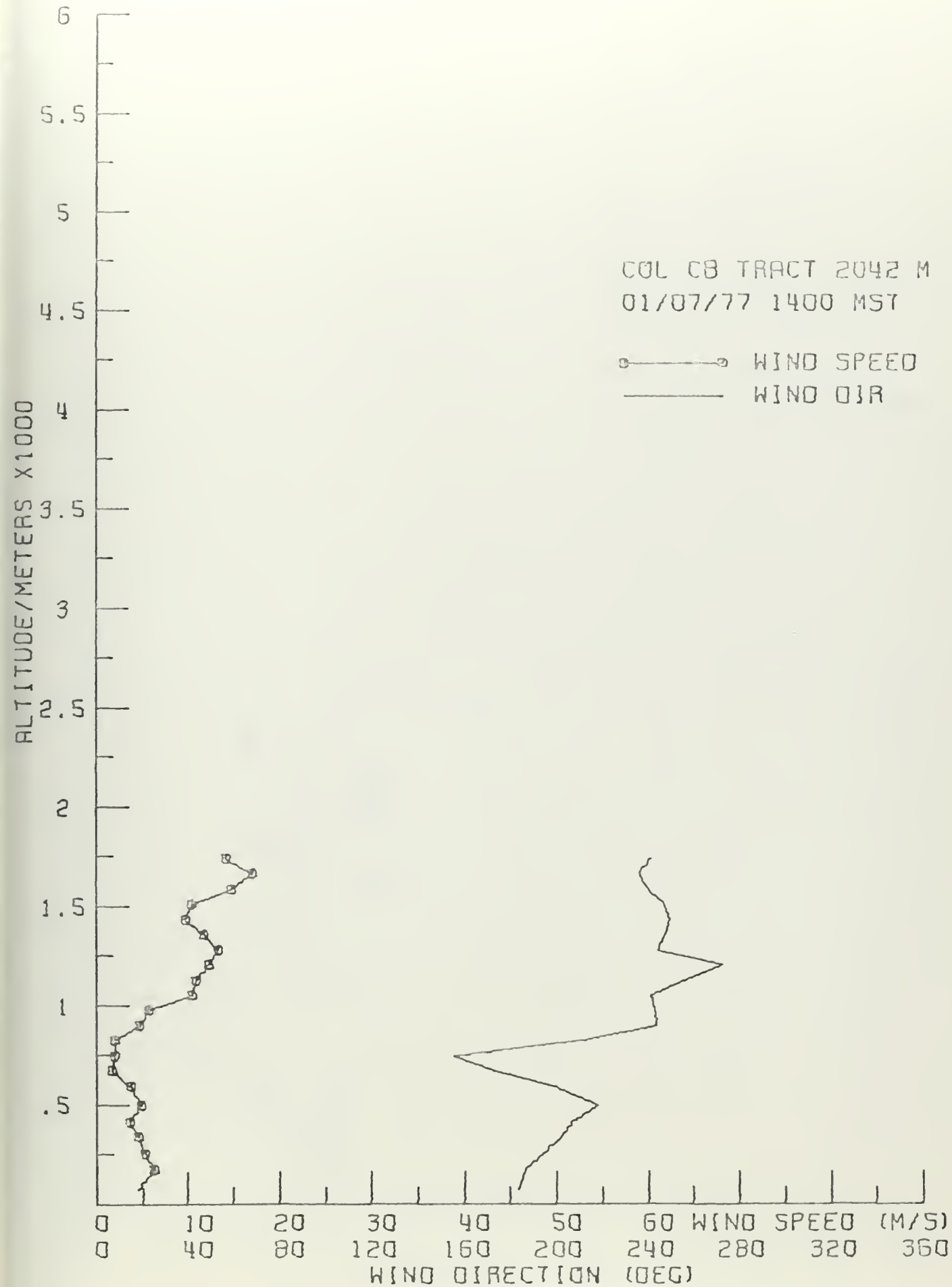
TEMPERATURE DEG/C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01/07/77 1400 MST
WIND SPEED
WIND DIR
ALTITUDE/METERS X1000
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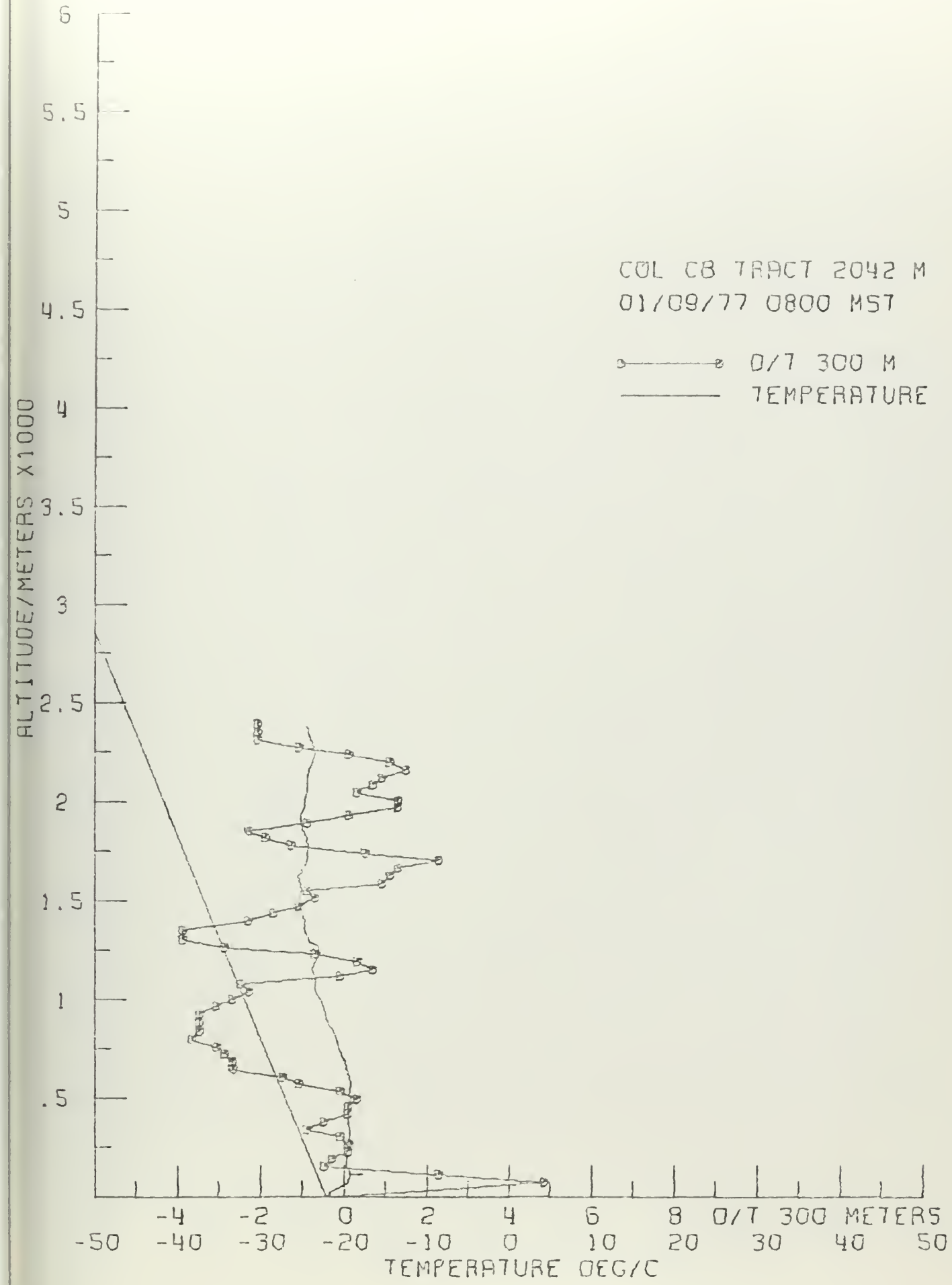
0 10 20 30 40 50 60 WIND SPEED (M/S)
0 40 80 120 160 200 240 280 320 360
WIND DIRECTION (DEG)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01/09/77 0800 MST
O/T 300 M
TEMPERATURE
ALTITUDE/METERS X1000
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O/T 300 METERS
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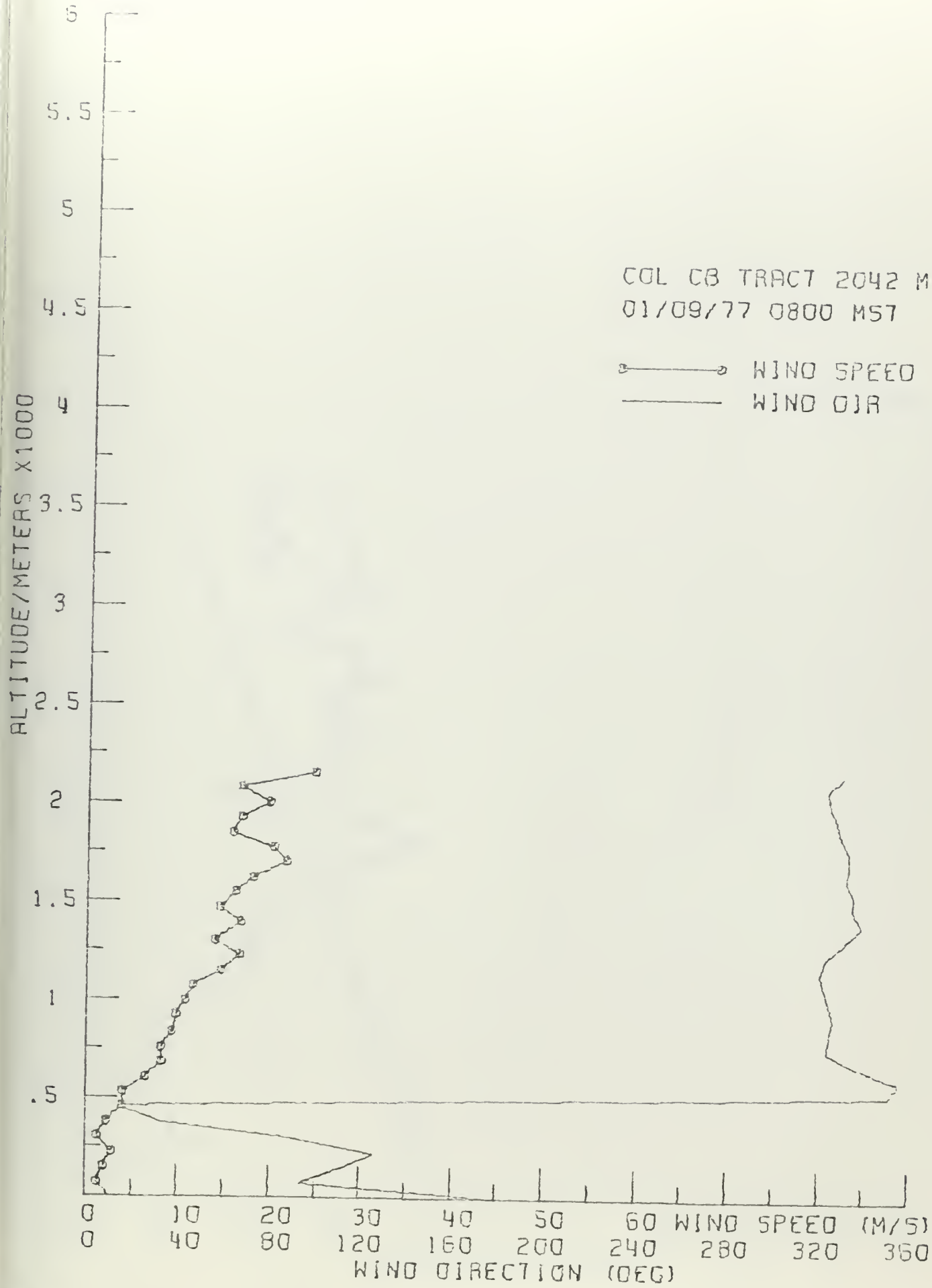
TEMPERATURE DEG/C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01/09/77 0800 MST
WIND SPEED
WIND DIR
ALTITUDE/METERS X1000
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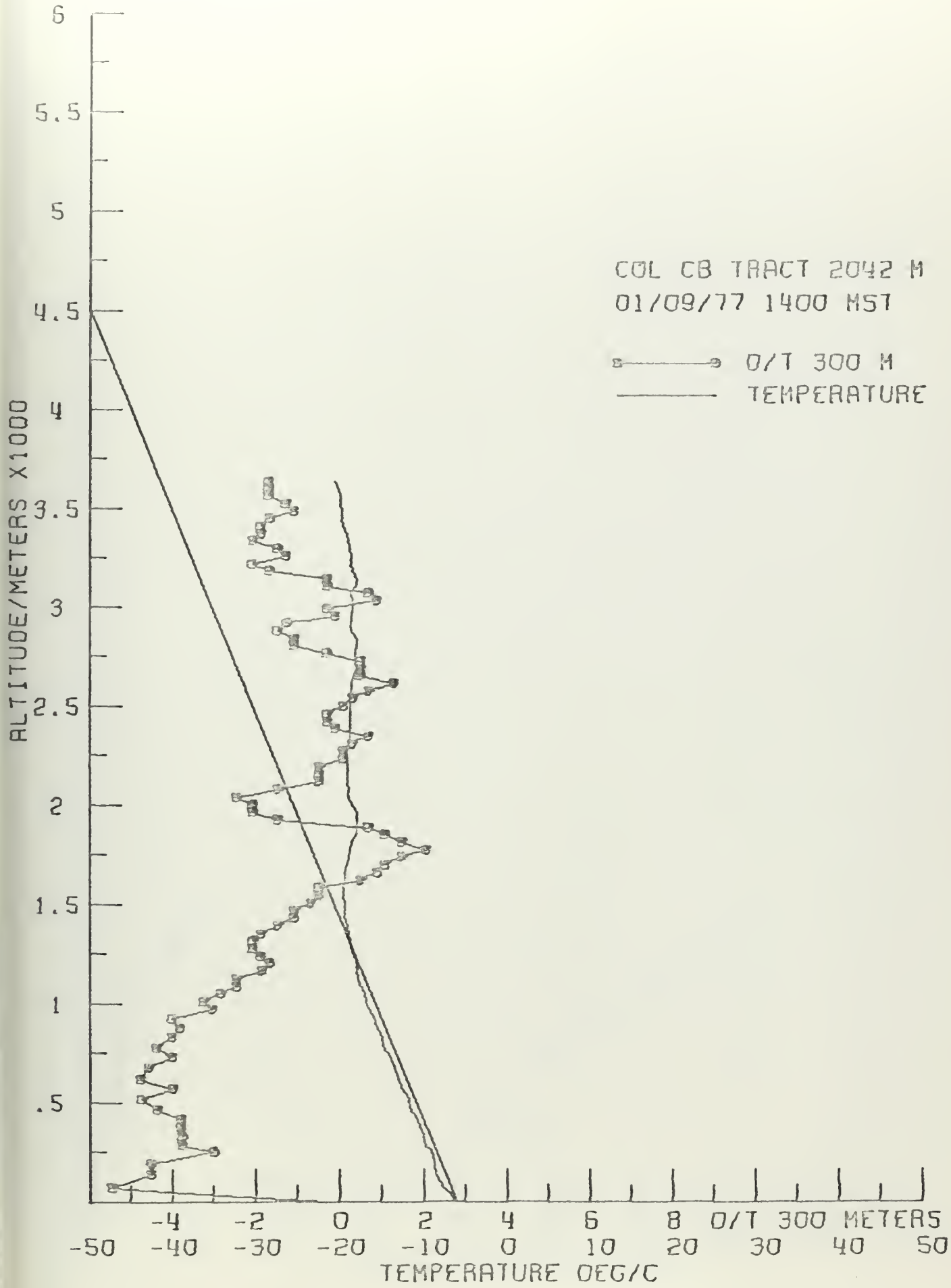
0 10 20 30 40 50 60 WIND SPEED (M/S)
0 40 80 120 160 200 240 280 320 360
WIND DIRECTION (DEG)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01/09/77 1400 MST
O/T 300 M
TEMPERATURE
ALTITUDE/METERS X1000
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O/T 300 METERS
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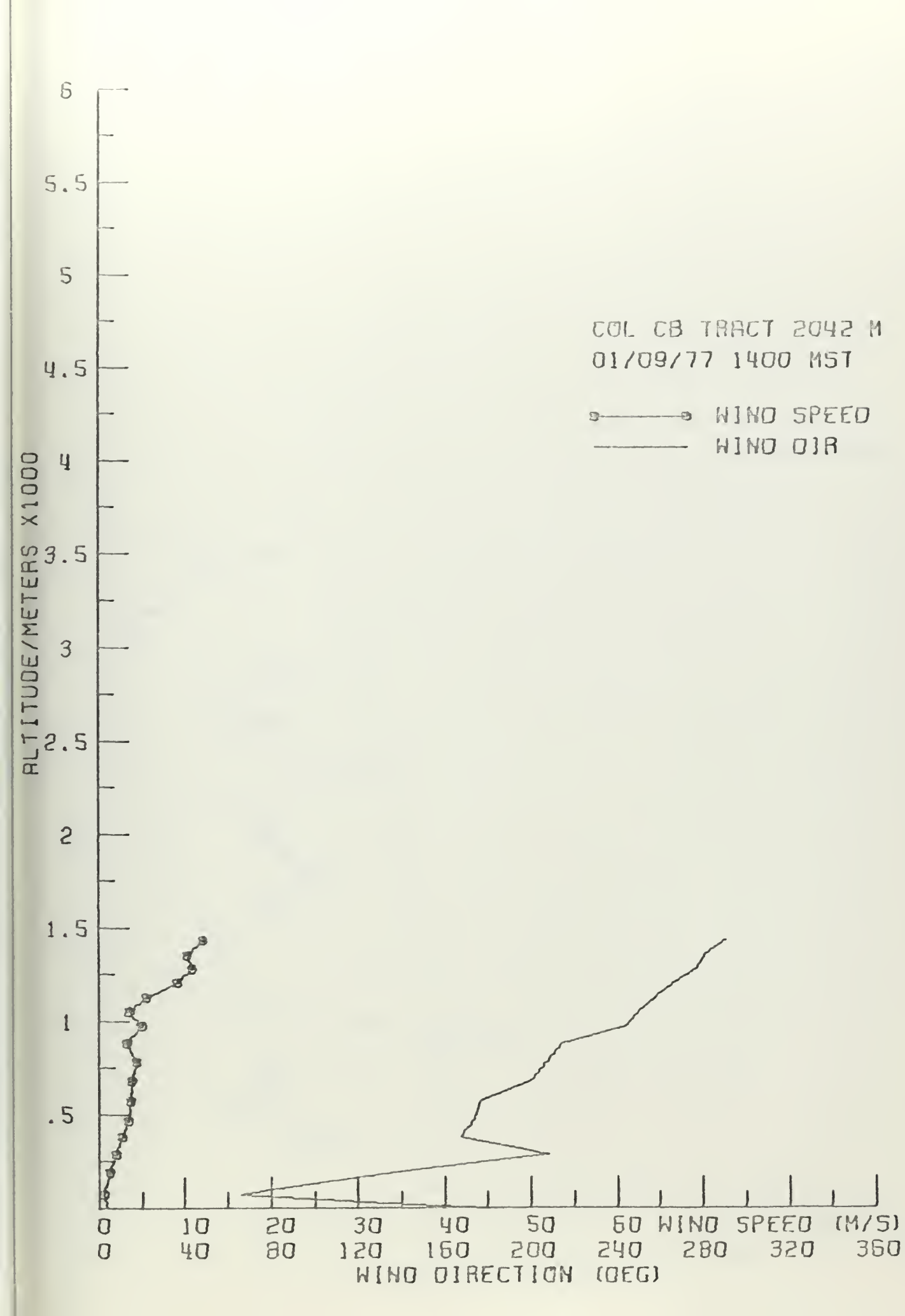
TEMPERATURE DEG/C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01/09/77 1400 MST
WIND SPEED
WIND DIR
ALTITUDE/METERS X1000
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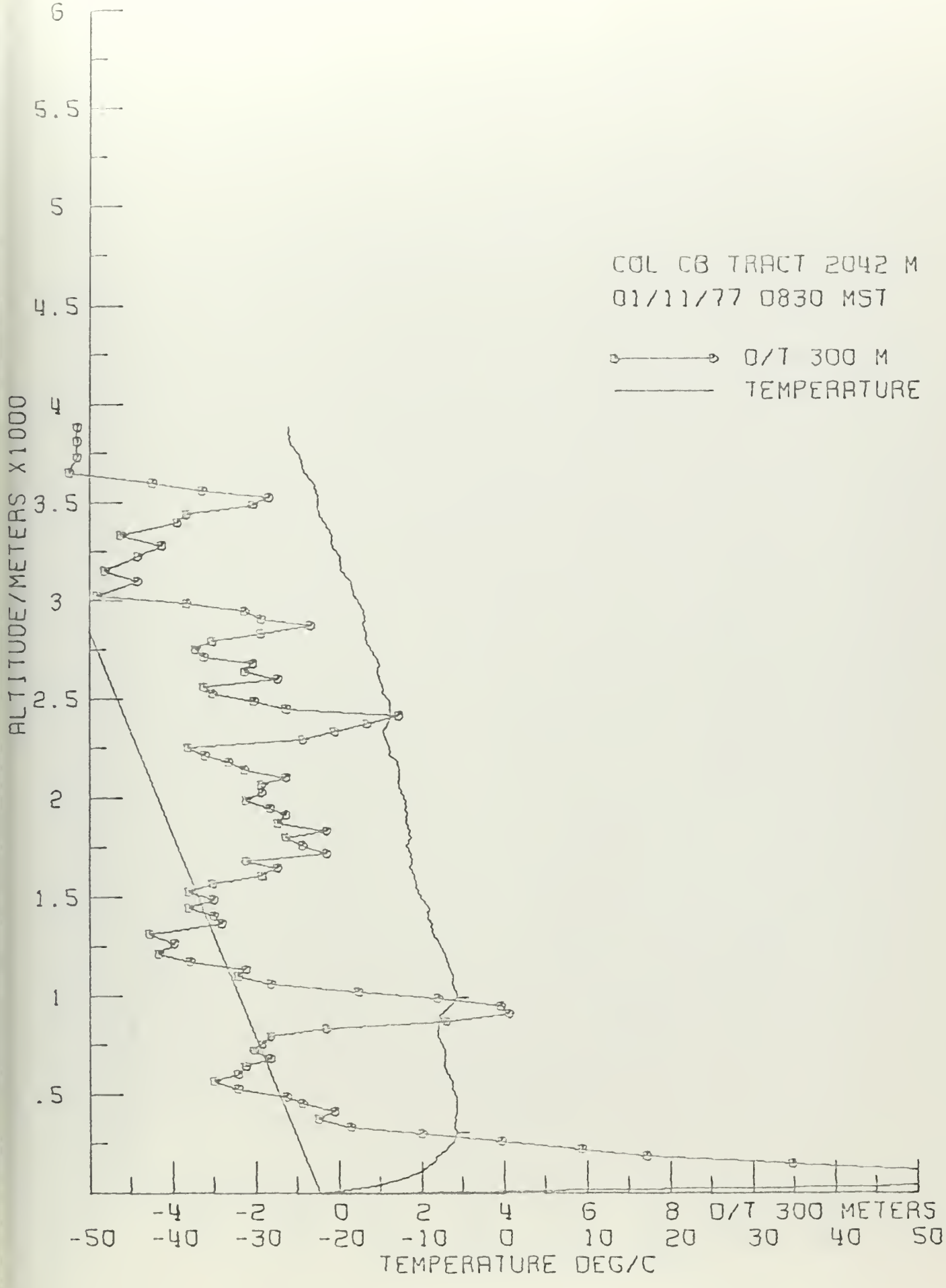
0 10 20 30 40 50 60 WIND SPEED (M/S)
0 40 80 120 160 200 240 280 320 360
WIND DIRECTION (DEG)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01/11/77 0830 MST
O/T 300 M
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O/T 300 METERS
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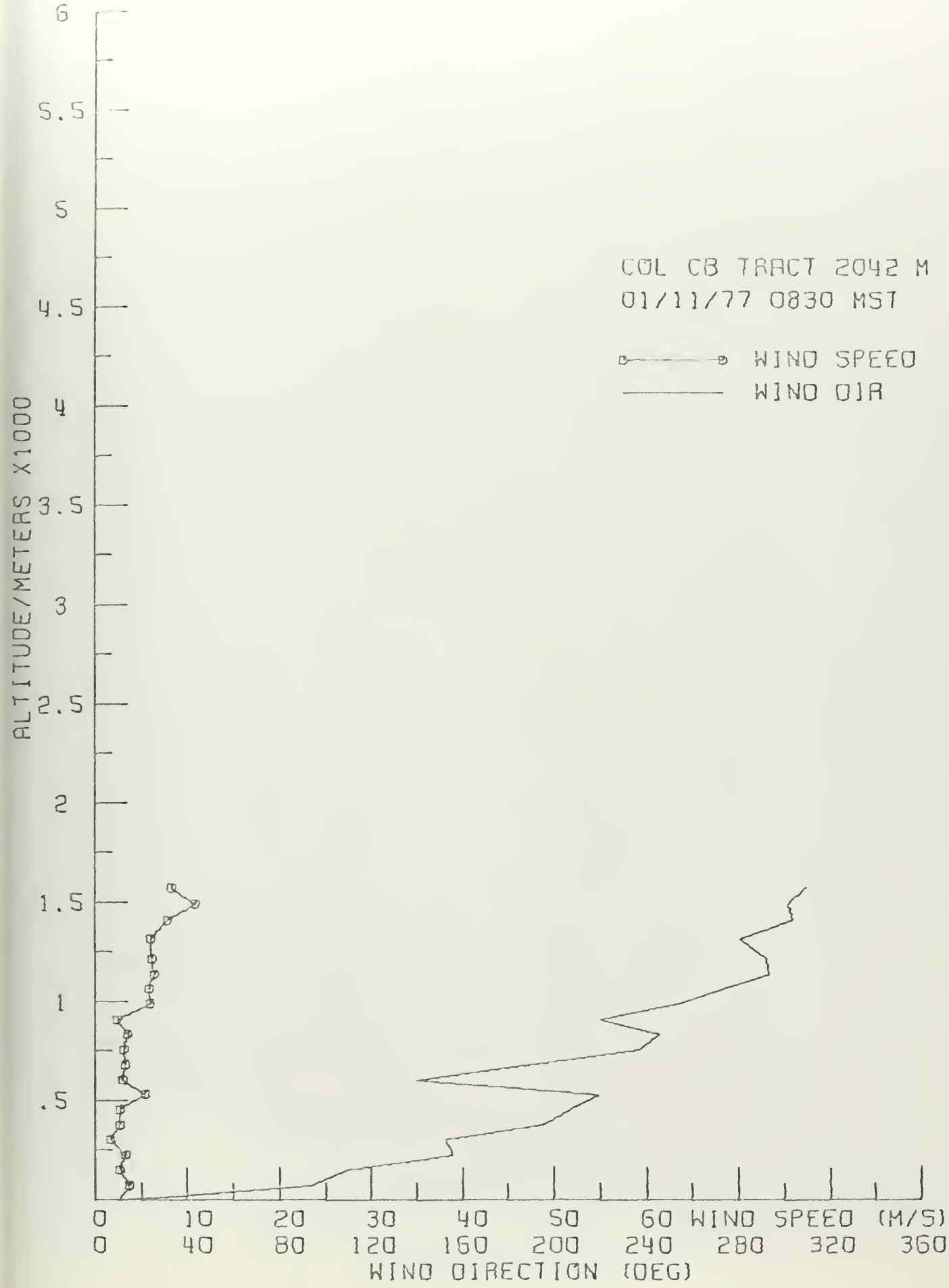
TEMPERATURE DEG/C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01/11/77 0830 MST
WIND SPEED
WIND DIR
ALTITUDE/METERS X1000
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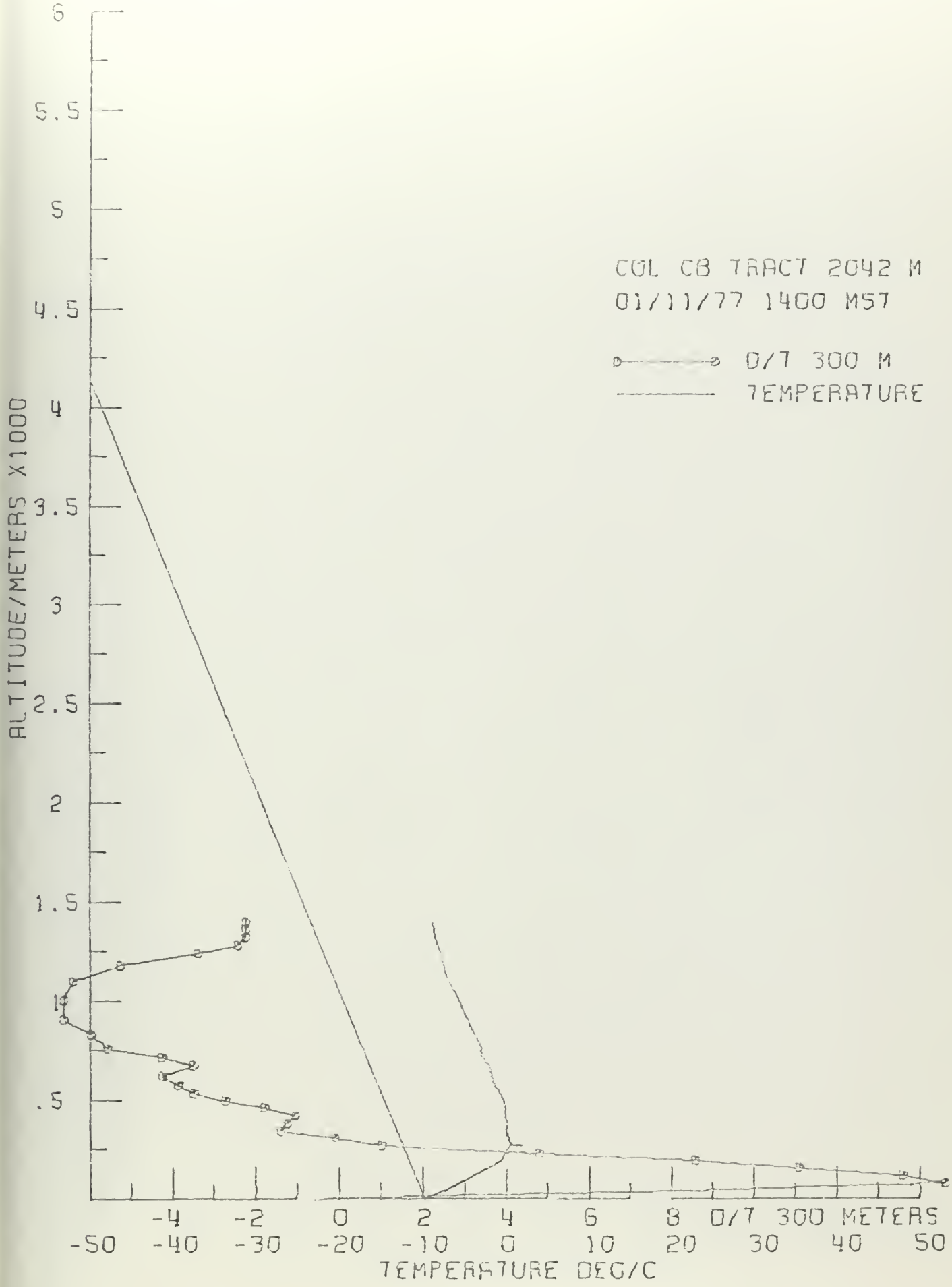
0 10 20 30 40 50 60 WIND SPEED (M/S)
0 40 80 120 160 200 240 280 320 360
WIND DIRECTION (DEG)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O/T 300 METERS
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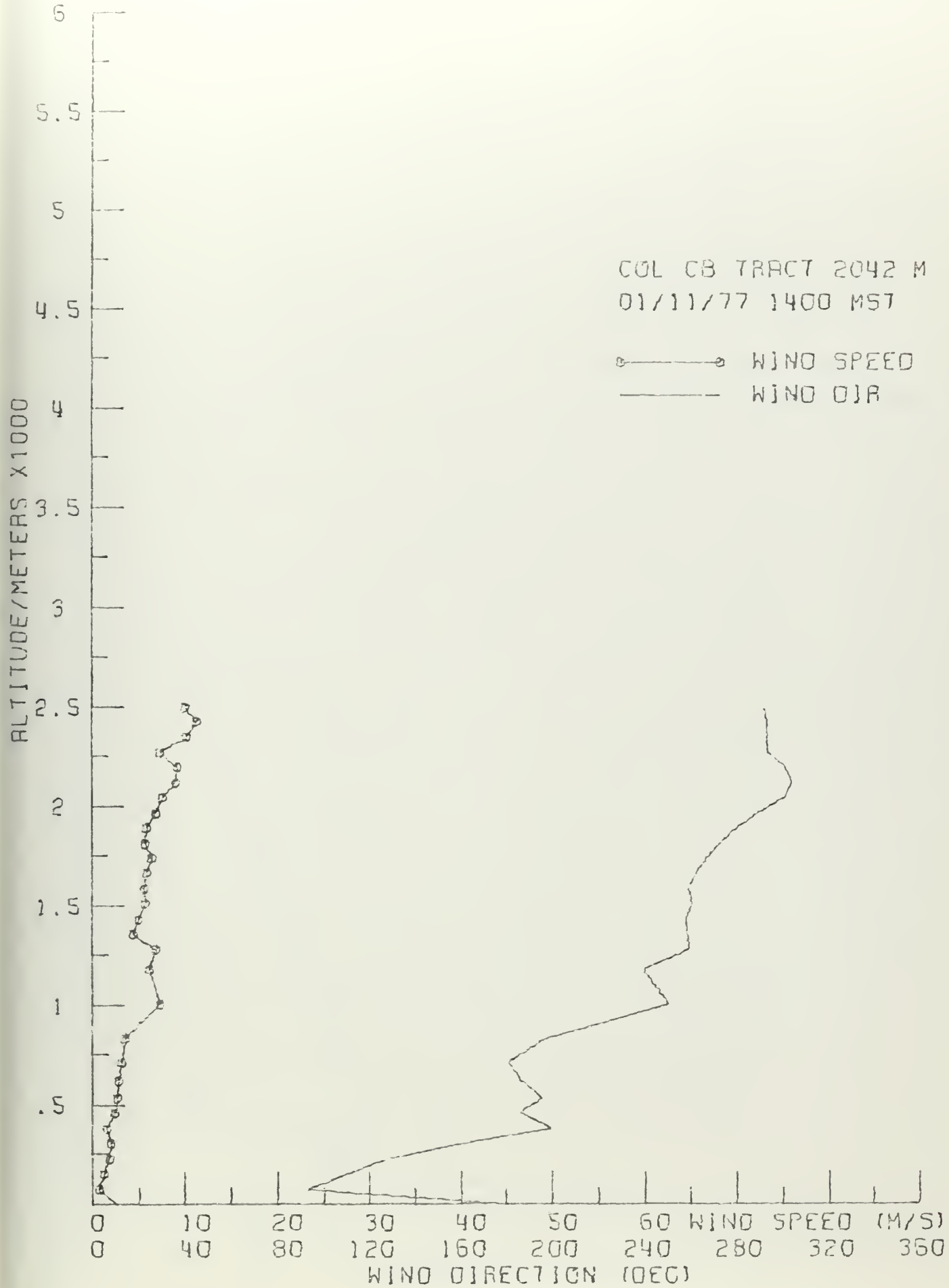
TEMPERATURE DEG/C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01/11/77 1400 MST
WIND SPEED
WIND DIR
ALTITUDE/METERS X1000
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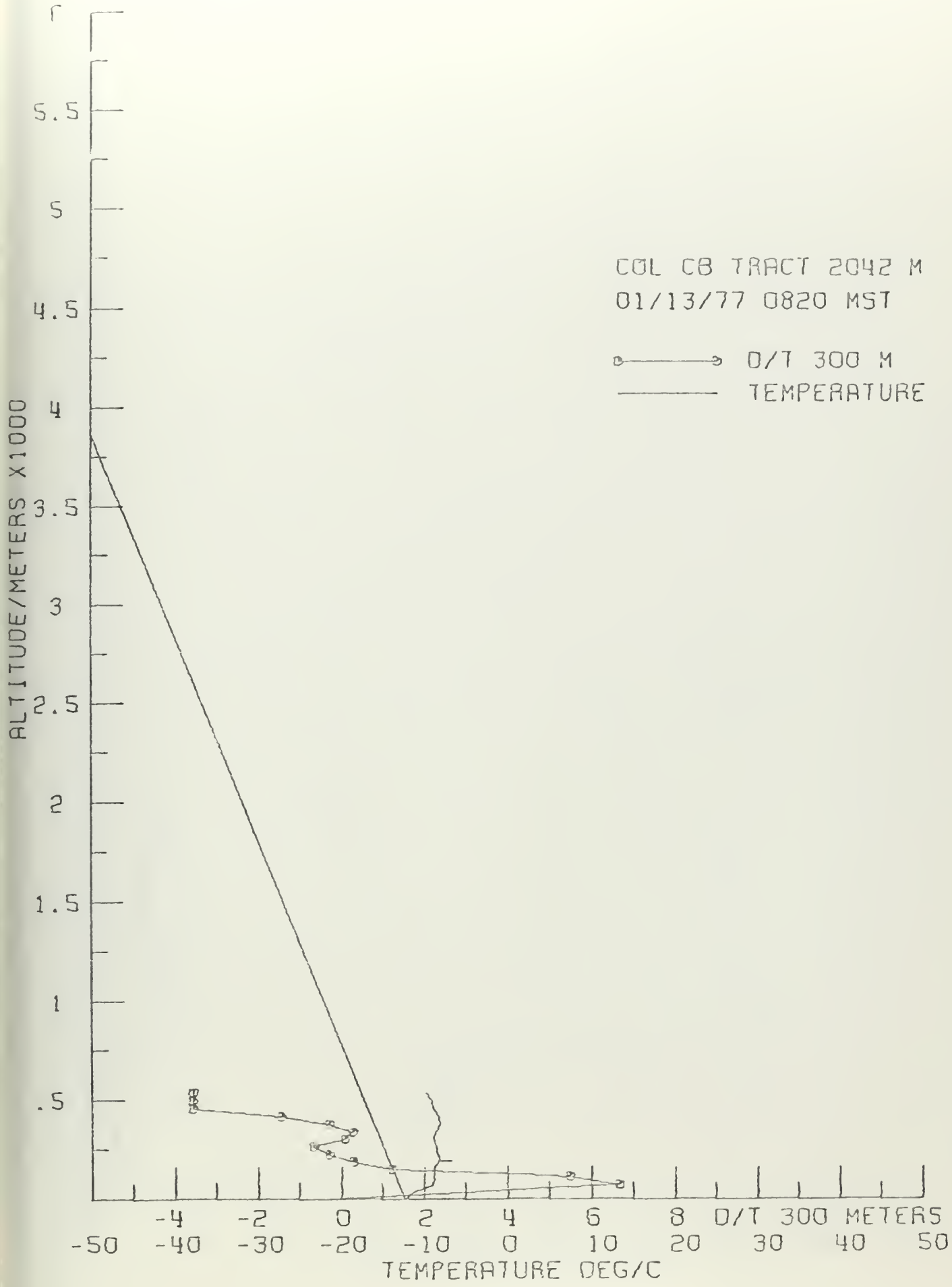
0 10 20 30 40 50 60 WIND SPEED (M/S)
0 40 80 120 160 200 240 280 320 360
WIND DIRECTION (DEG)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01/13/77 0820 MST
D/T 300 M
TEMPERATURE
ALTITUDE/METERS X1000
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5
4.5
4
3.5
3
2.5
2
1.5
1
.5
-4
-2
0
2
4
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D/T 300 METERS
-50
-40
-30
-20
-10
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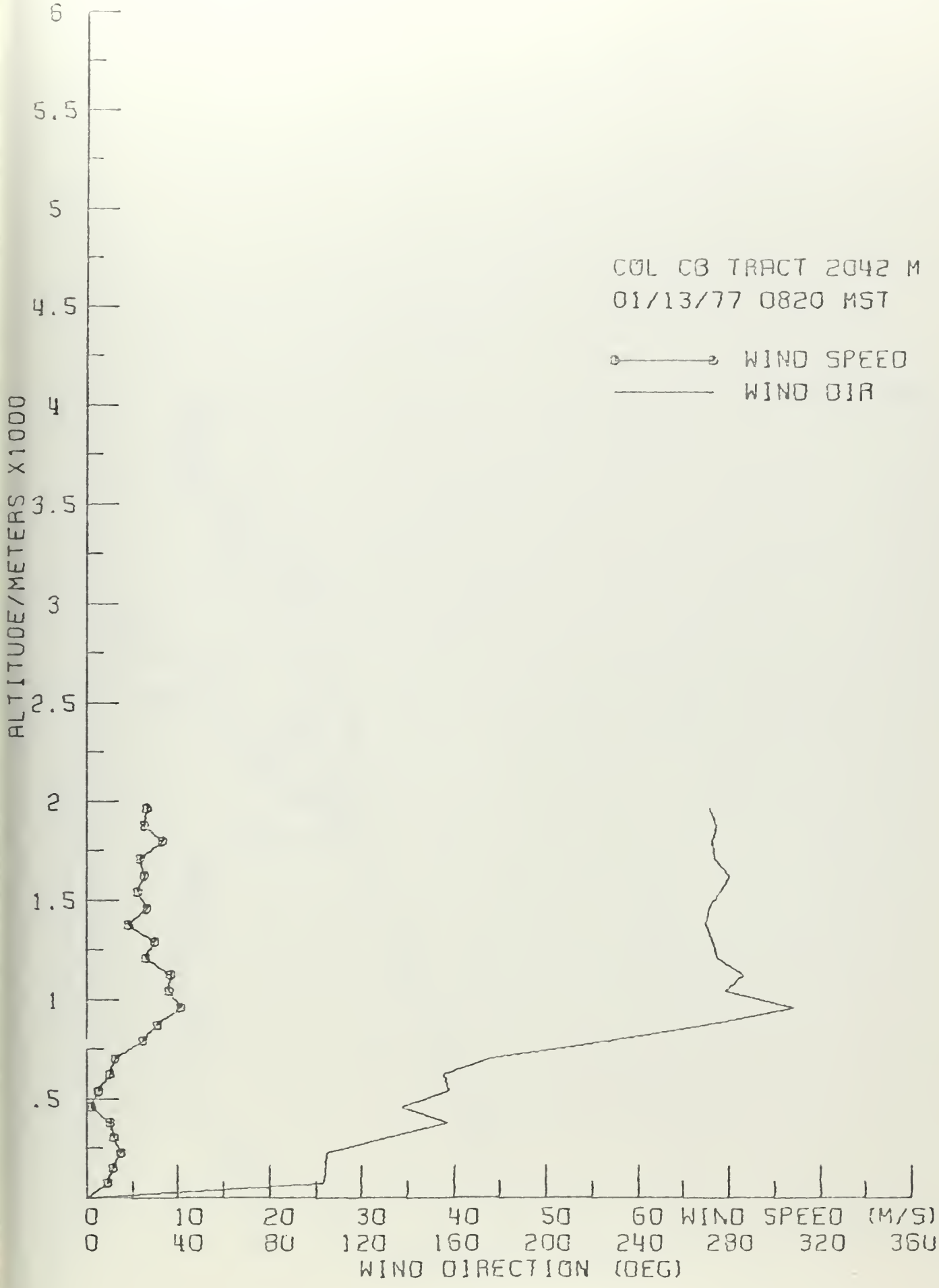
TEMPERATURE DEG/C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01/13/77 0820 MST
WIND SPEED
WIND DIR
ALTITUDE/METERS X1000
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5.5
5
4.5
4
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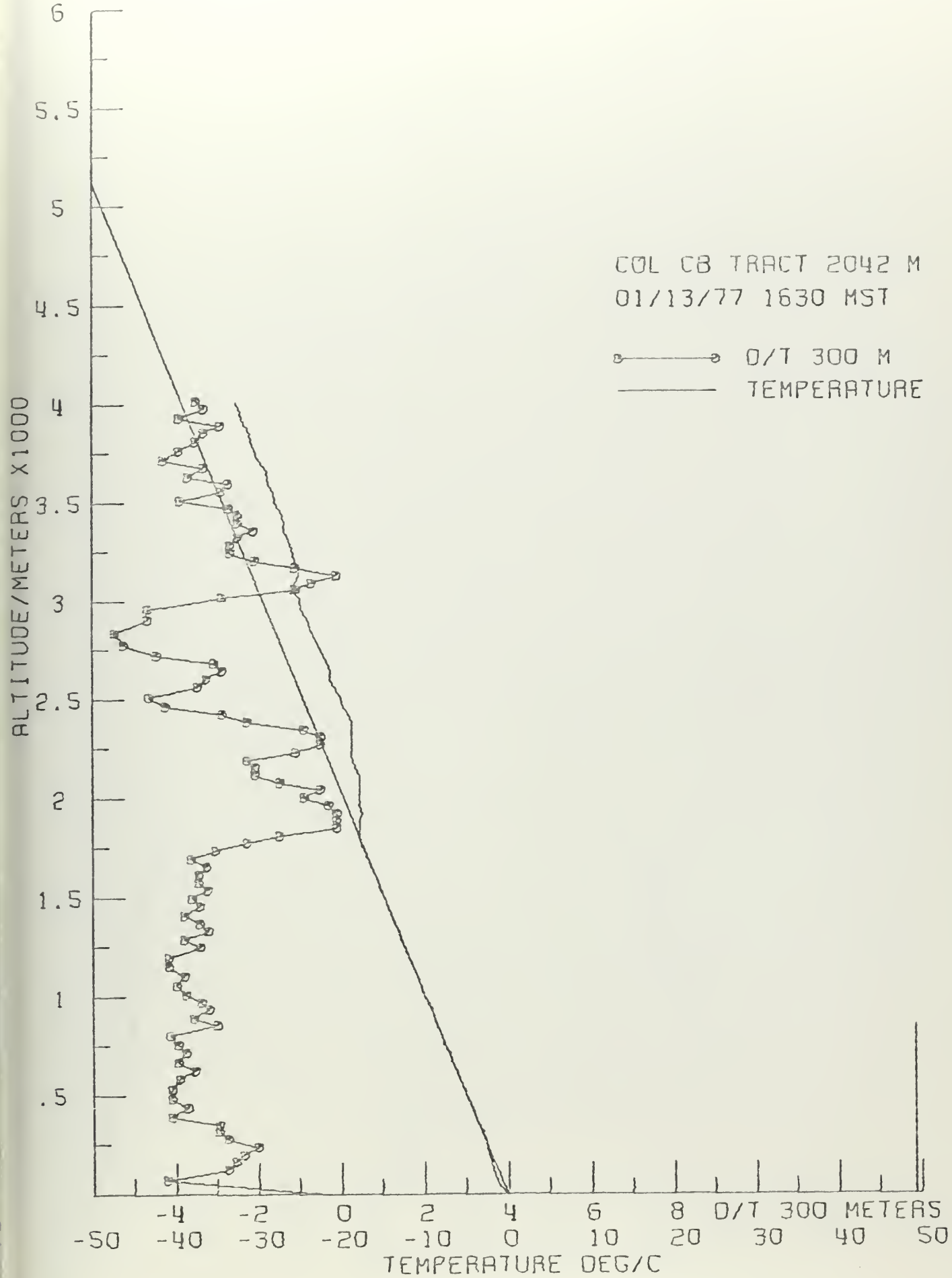
0 10 20 30 40 50 60 WIND SPEED (M/S)
0 40 80 120 160 200 240 280 320 360
WIND DIRECTION (DEG)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01/13/77 1630 MST
O/T 300 M
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ALTITUDE/METERS X1000
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4.5
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3.5
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2.5
2
1.5
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.5
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2
4
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-20
-10
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20
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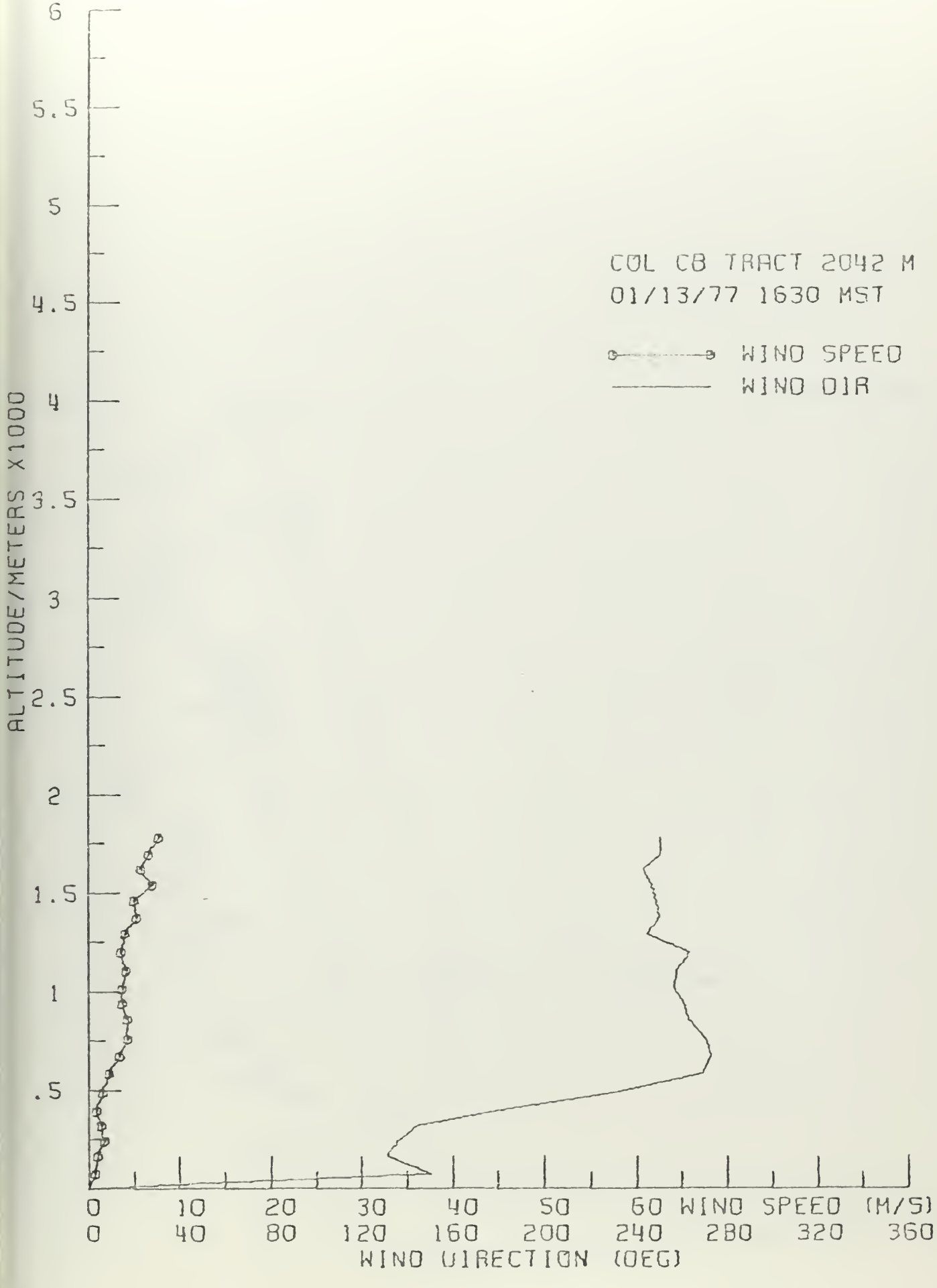
TEMPERATURE DEG/C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01/13/77 1630 MST
WIND SPEED
WIND DIR
ALTITUDE/METERS X1000
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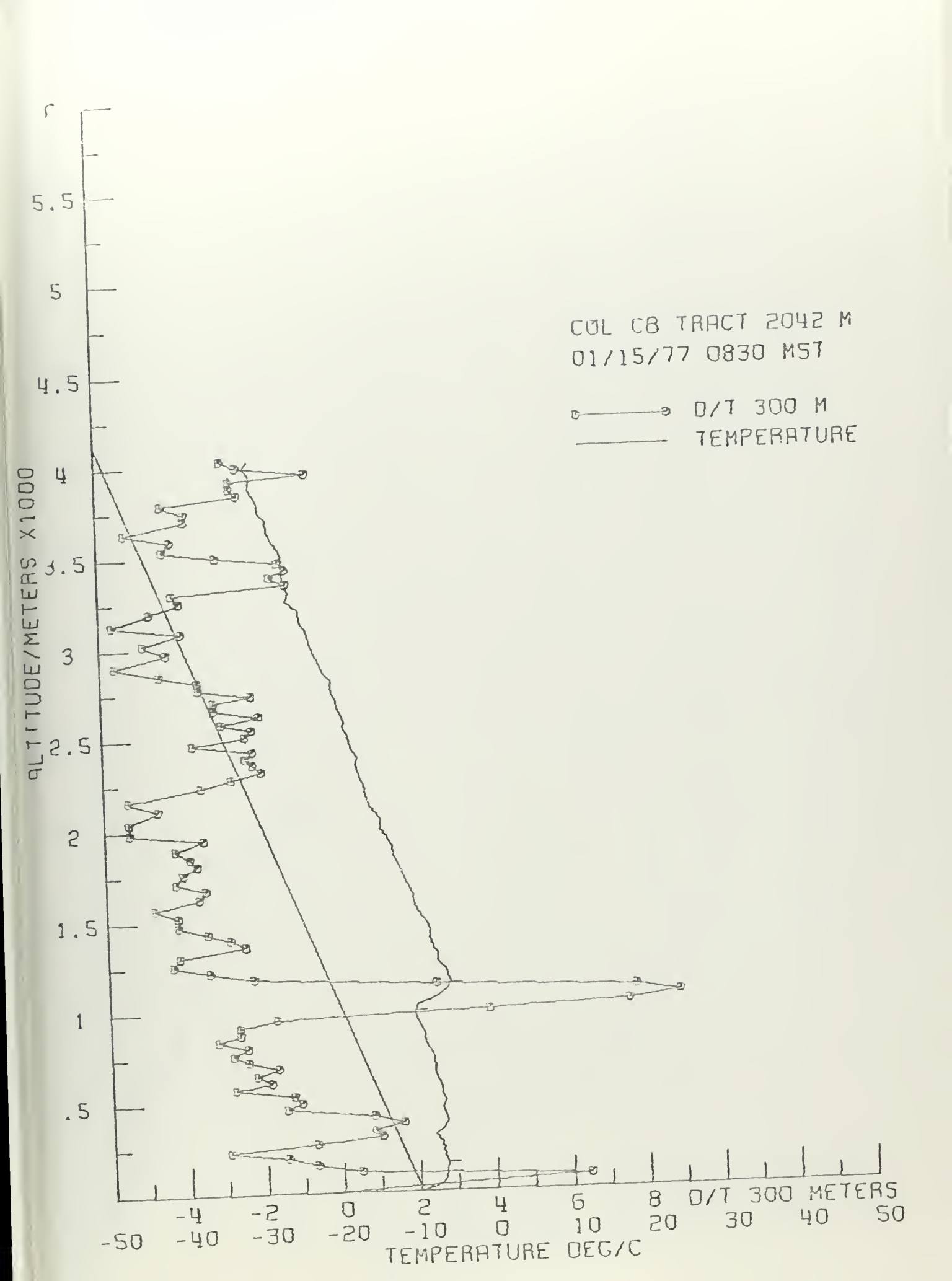
0 10 20 30 40 50 60 WIND SPEED (M/S)
0 40 80 120 160 200 240 280 320 360
WIND DIRECTION (DEG)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01/15/77 0830 MST
O/T 300 M
TEMPERATURE
ALTITUDE/METERS X1000
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3.5
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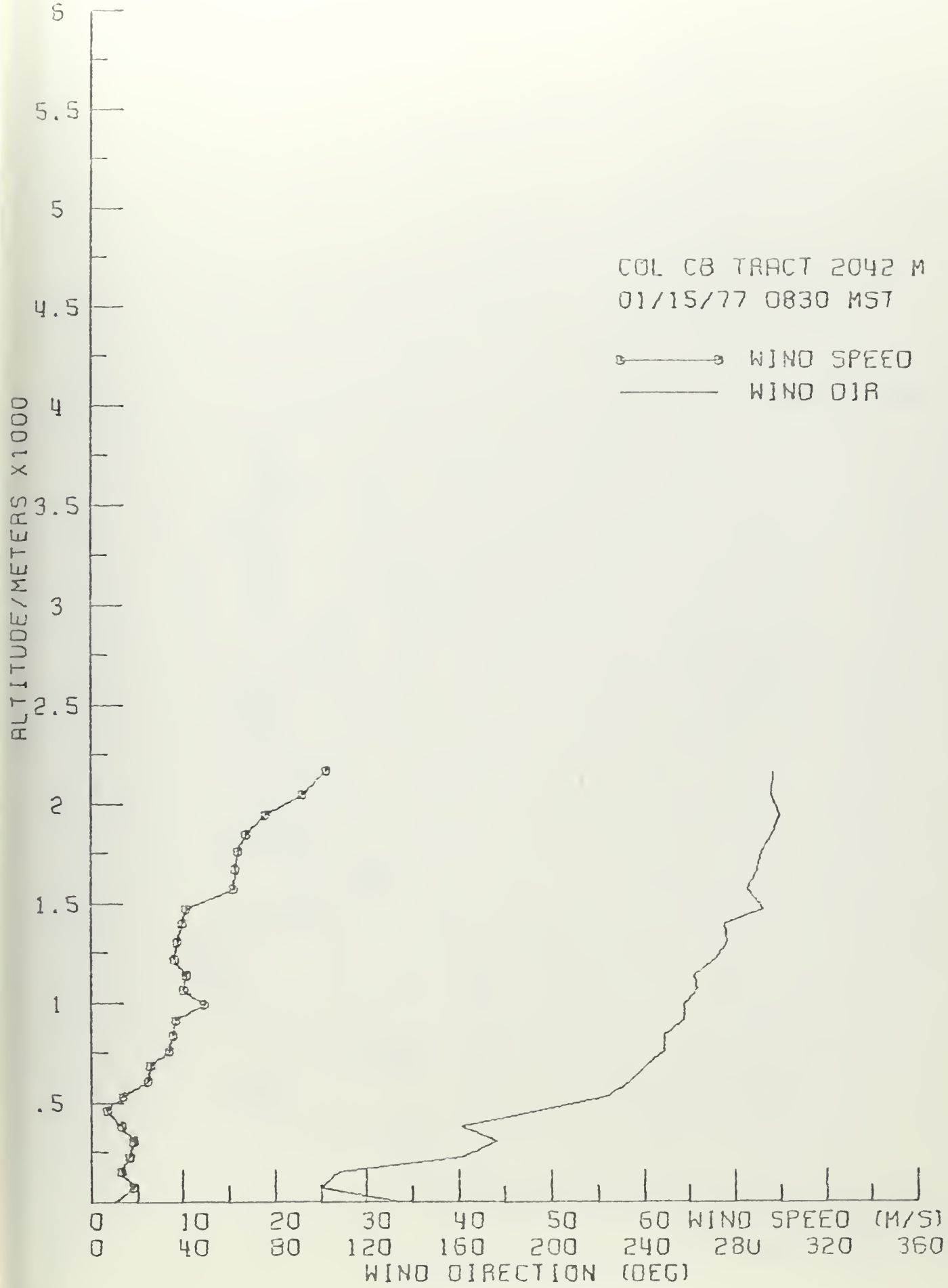
TEMPERATURE DEG/C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01/15/77 0830 MST
WIND SPEED
WIND DIR
ALTITUDE/METERS X1000
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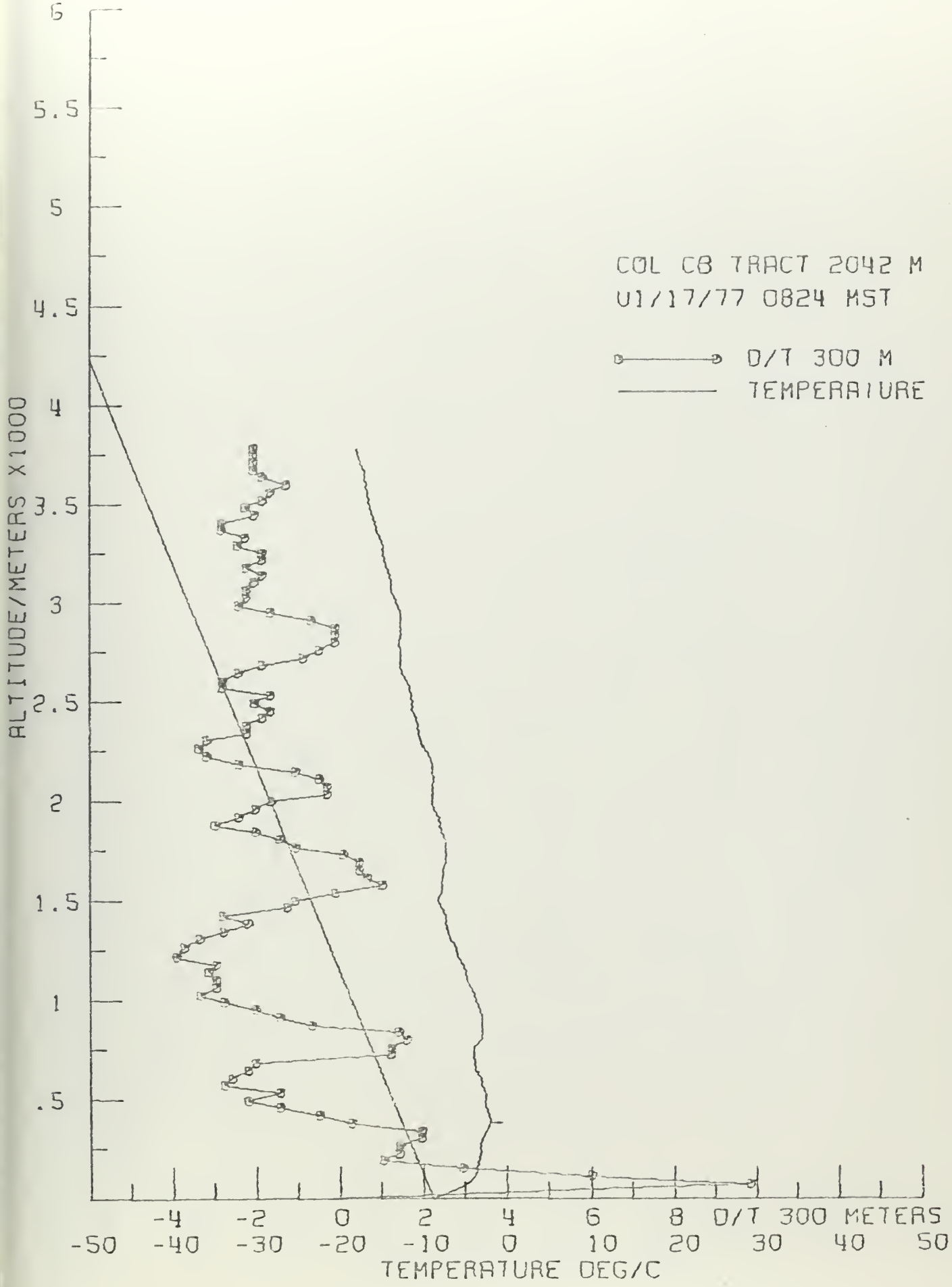
0 10 20 30 40 50 60 WIND SPEED (M/S)
0 40 80 120 160 200 240 280 320 360
WIND DIRECTION (DEG)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01/17/77 0824 MST
D/T 300 M
TEMPERATURE
ALTITUDE/METERS X1000
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.5
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0
2
4
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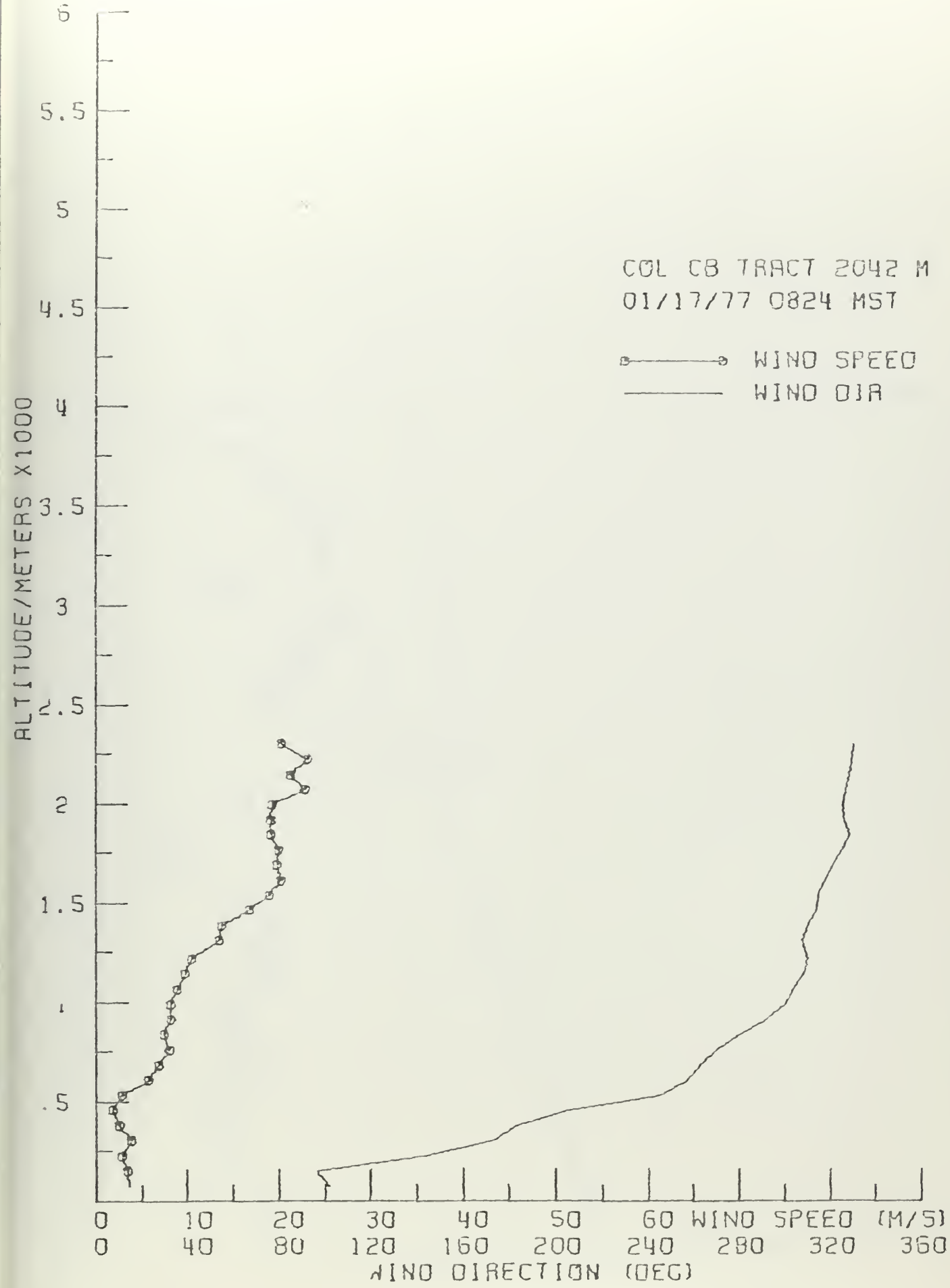
TEMPERATURE DEG/C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01/17/77 0824 MST
WIND SPEED
WIND DIR
ALTITUDE/METERS X1000
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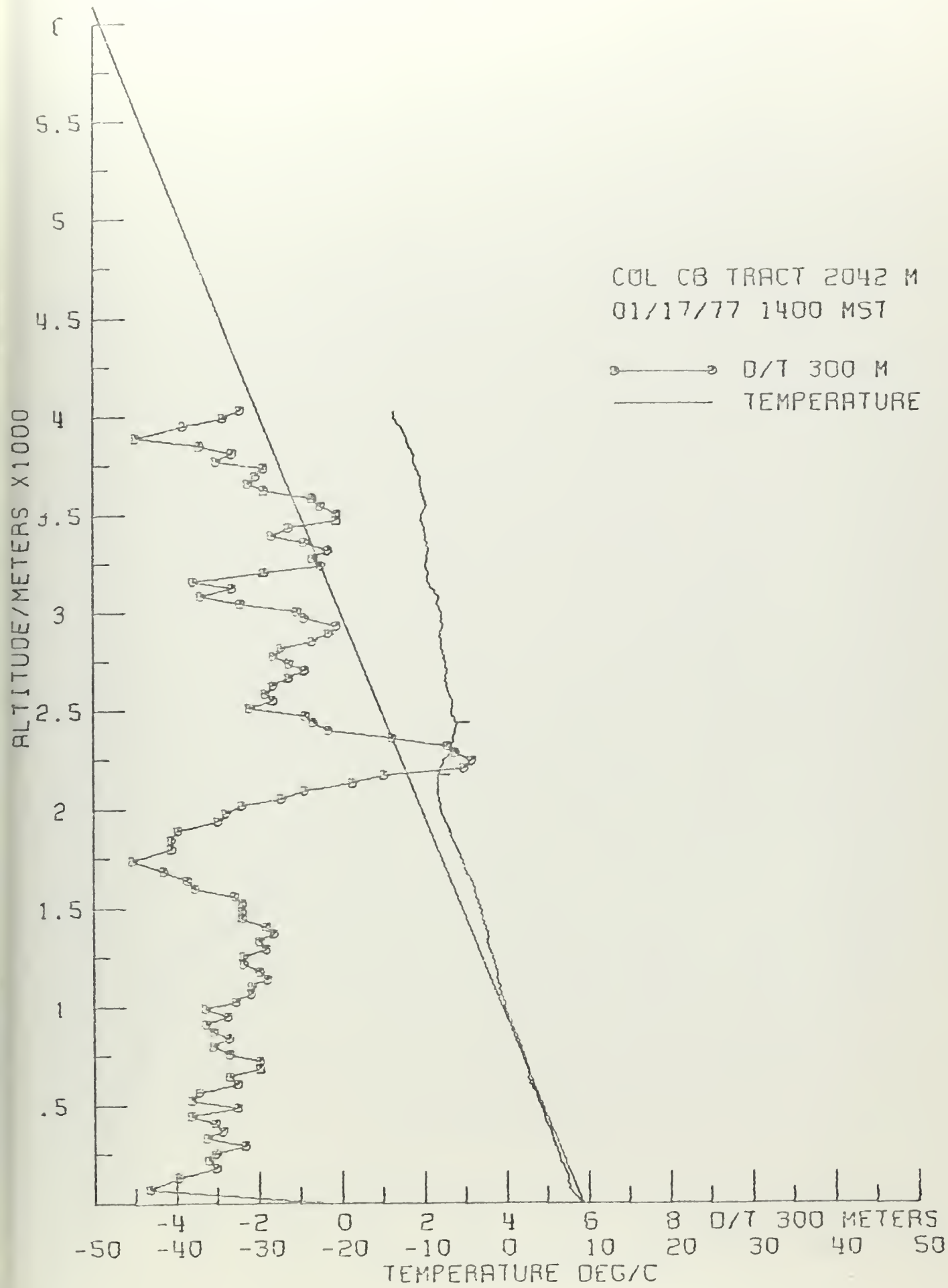
0 10 20 30 40 50 60 WIND SPEED (M/S)
0 40 80 120 160 200 240 280 320 360
WIND DIRECTION (DEG)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O/T 300 M
TEMPERATURE
ALTITUDE/METERS X1000
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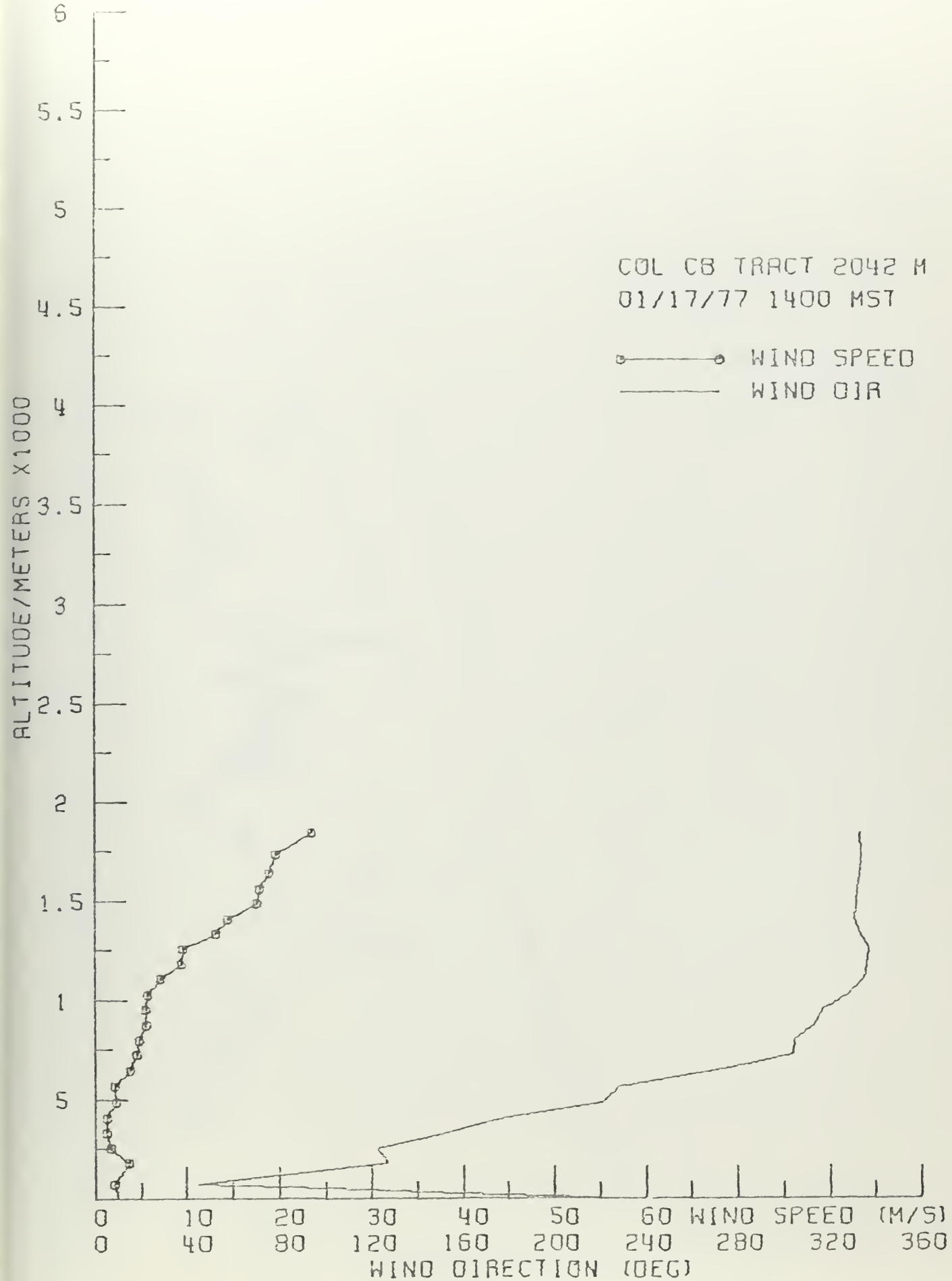
TEMPERATURE DEG/C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01/17/77 1400 MST
WIND SPEED
WIND DIR
ALTITUDE/METERS X1000
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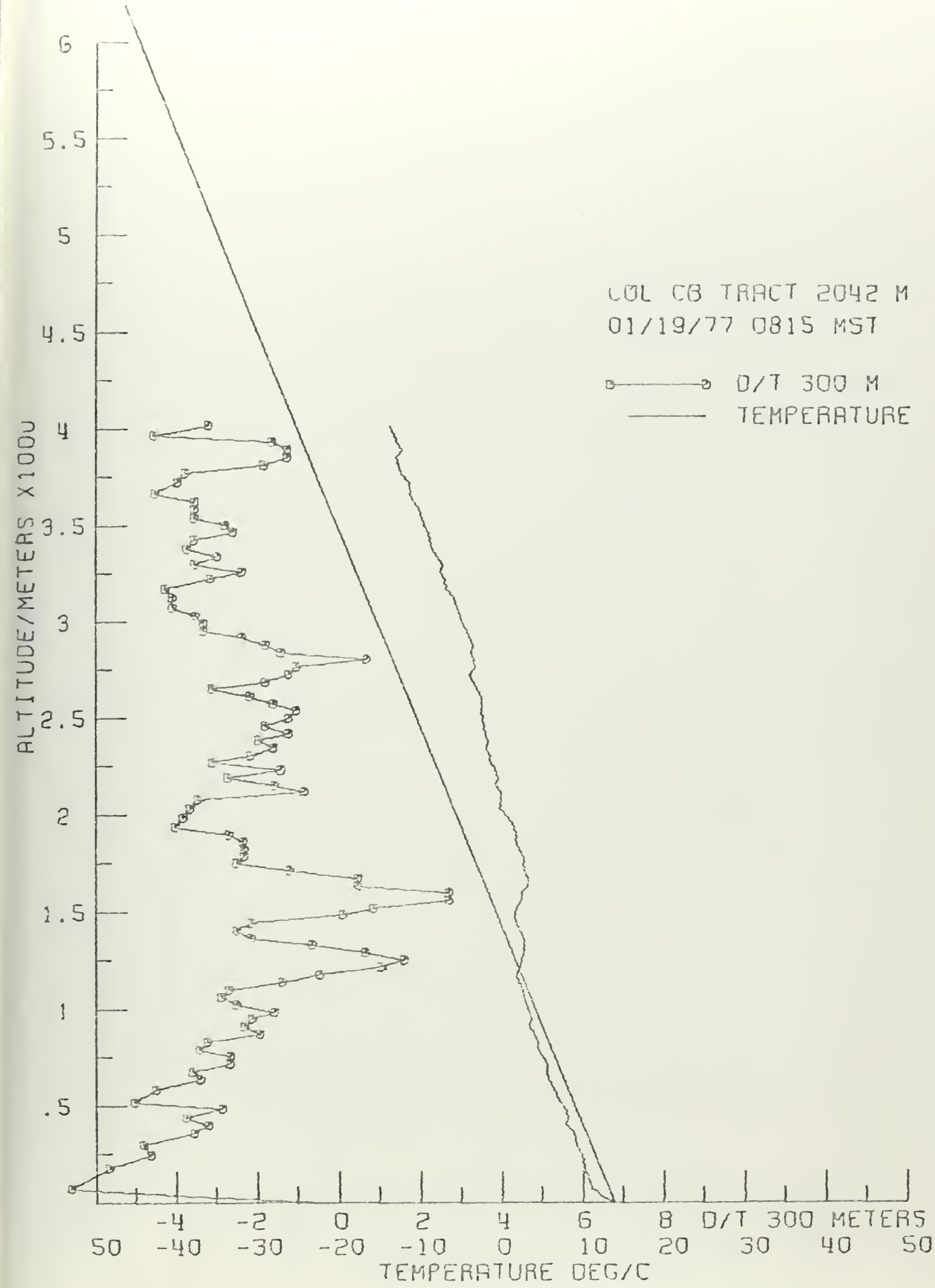
0 40 80 120 160 200 240 280 320 360
WIND DIRECTION (DEG)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01/19/77 0815 MST
D/T 300 M
TEMPERATURE
ALTITUDE/METERS X1000
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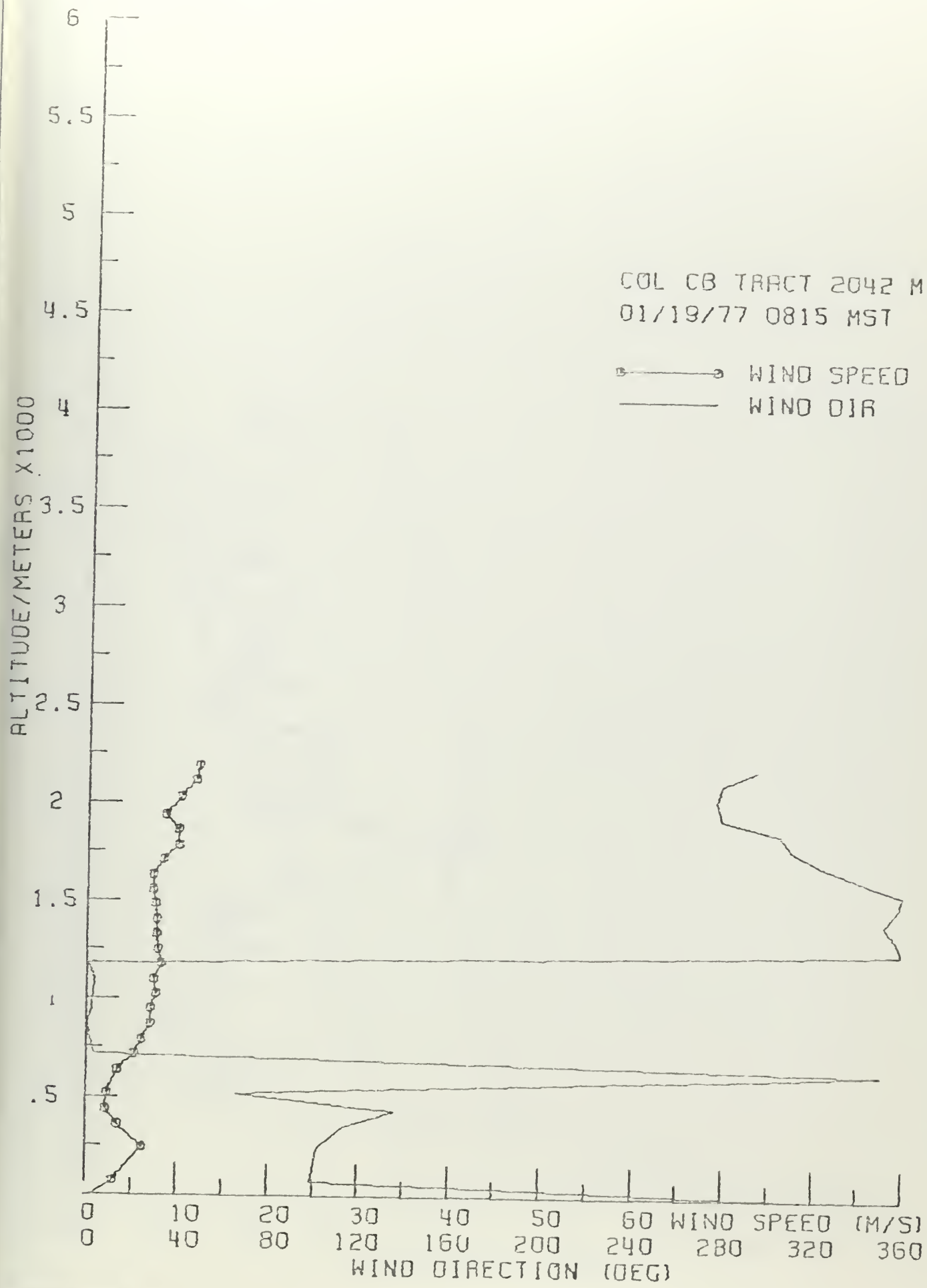
TEMPERATURE DEG/C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01/19/77 0815 MST
WIND SPEED
WIND DIR
ALTITUDE/METERS X1000
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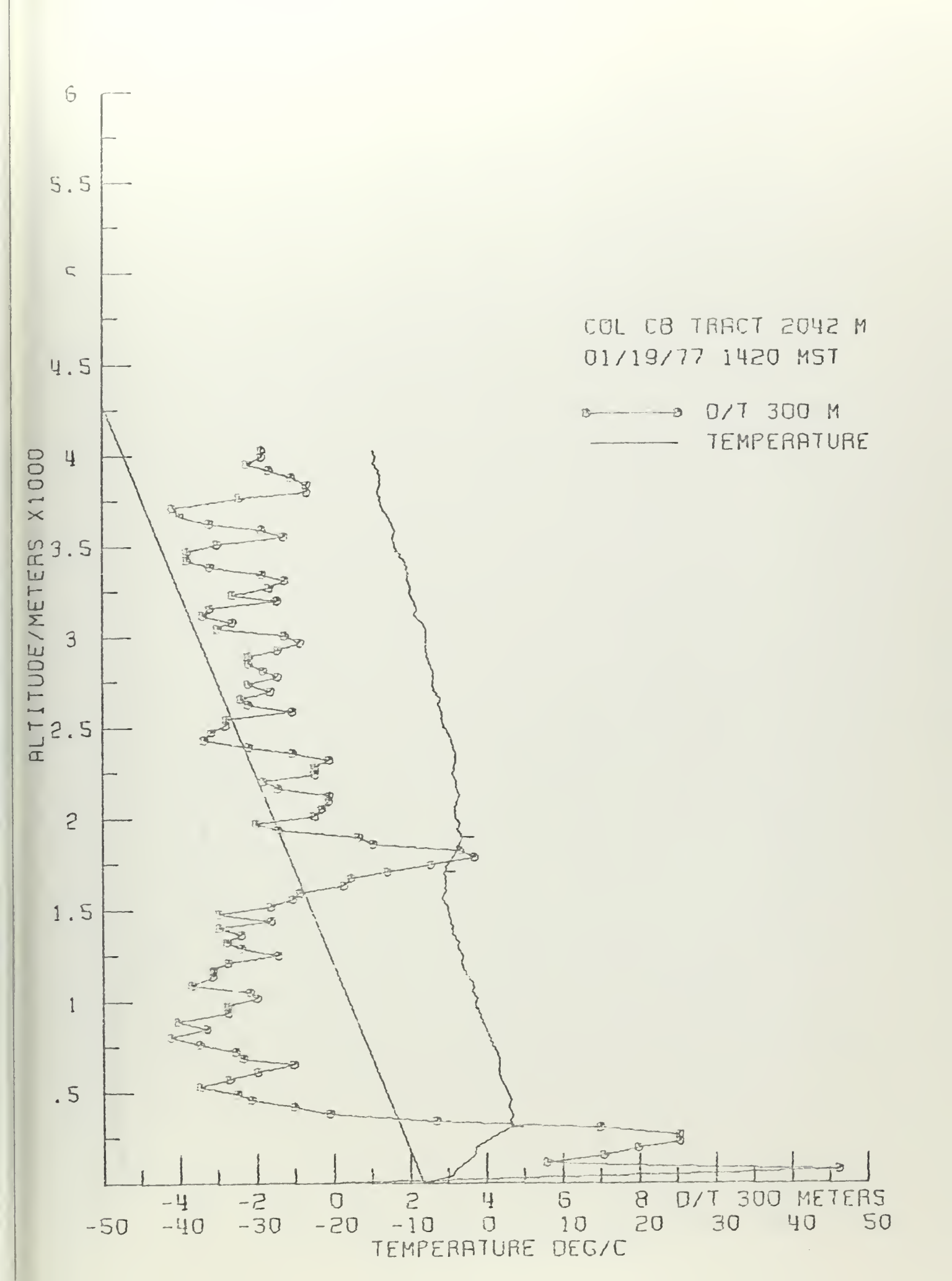
0 10 20 30 40 50 60 WIND SPEED (M/S)
0 40 80 120 160 200 240 280 320 360
WIND DIRECTION (DEG)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01/19/77 1420 MST
O/T 300 M
TEMPERATURE
ALTITUDE/METERS X1000
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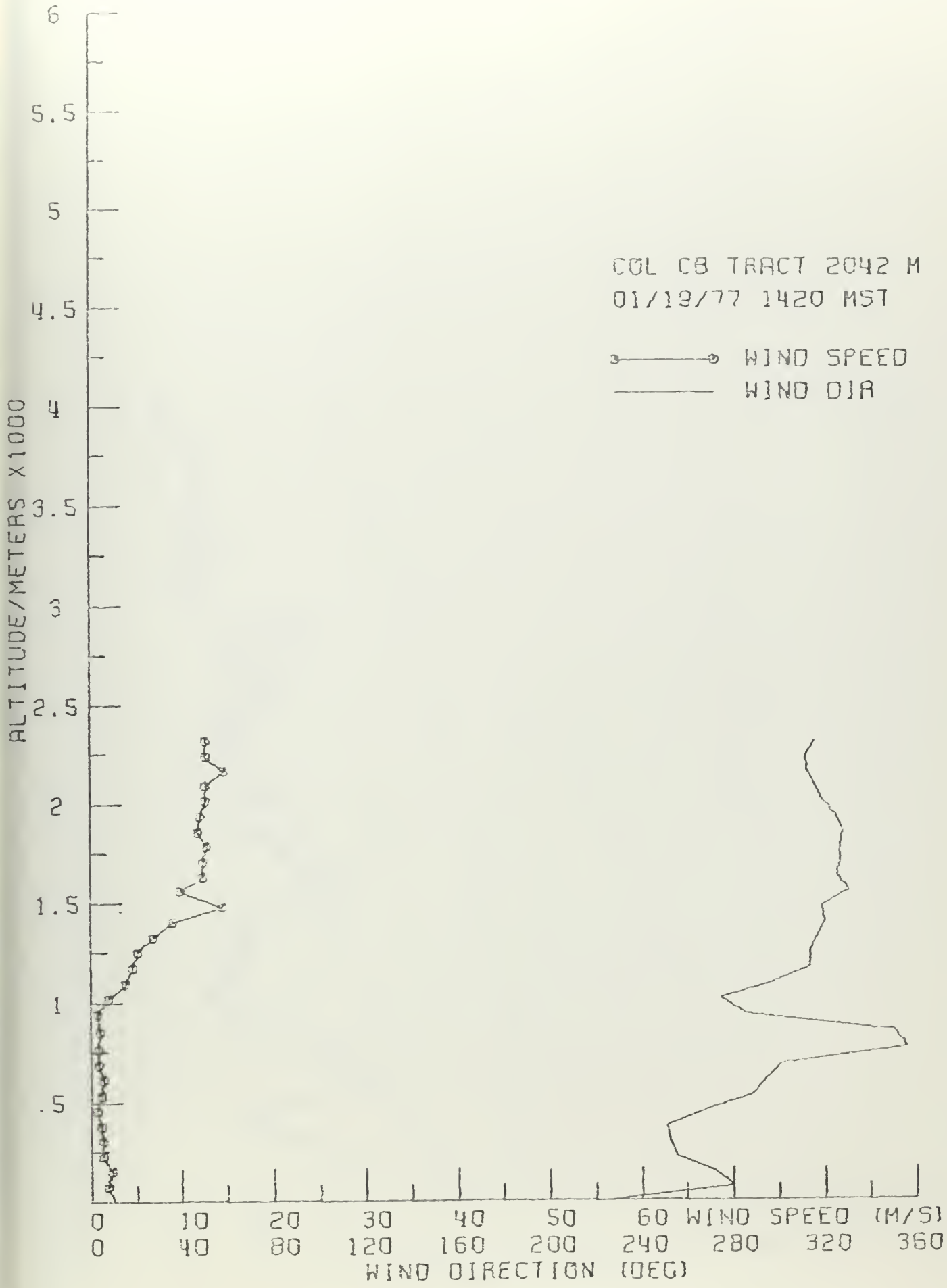
TEMPERATURE DEG/C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01/19/77 1420 MST
WIND SPEED
WIND DIR
ALTITUDE/METERS X1000
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0 10 20 30 40 50 60 WIND SPEED (M/S)
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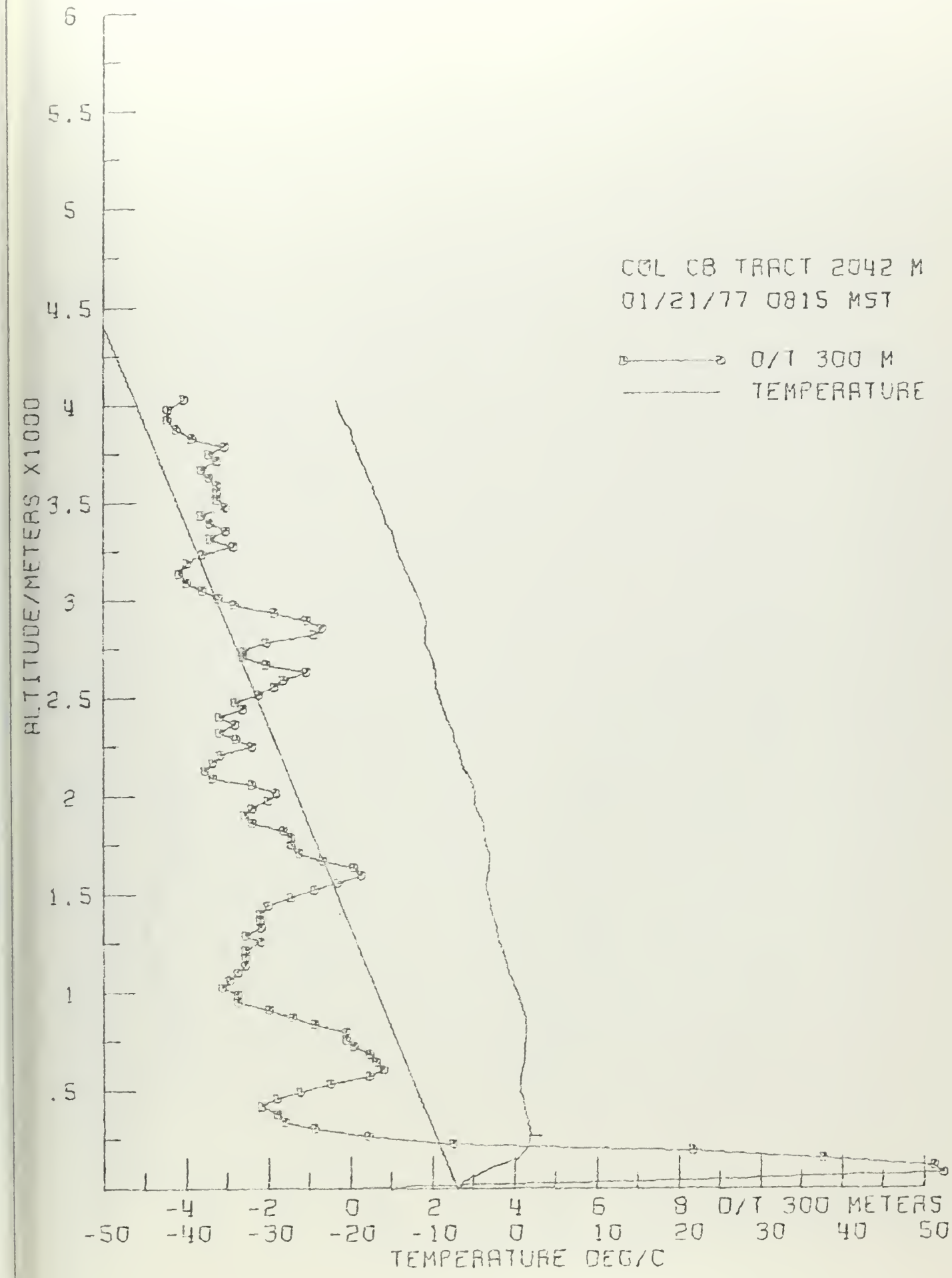
WIND DIRECTION (DEG)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01/21/77 0815 MST
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TEMPERATURE
ALTITUDE/METERS X1000
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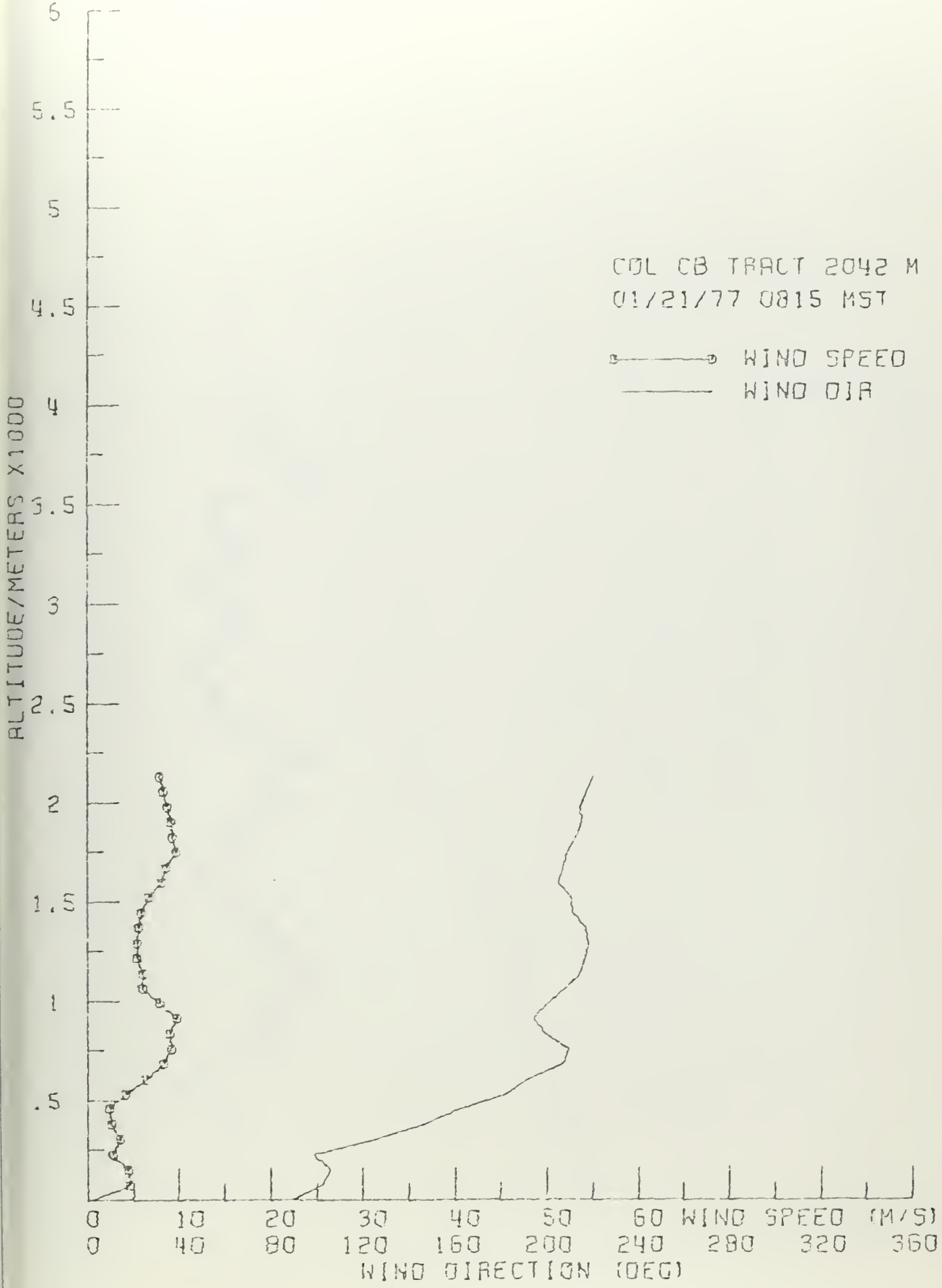
TEMPERATURE DEG/C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01/21/77 0815 MST
WIND SPEED
WIND DIR
ALTITUDE/METERS X1000
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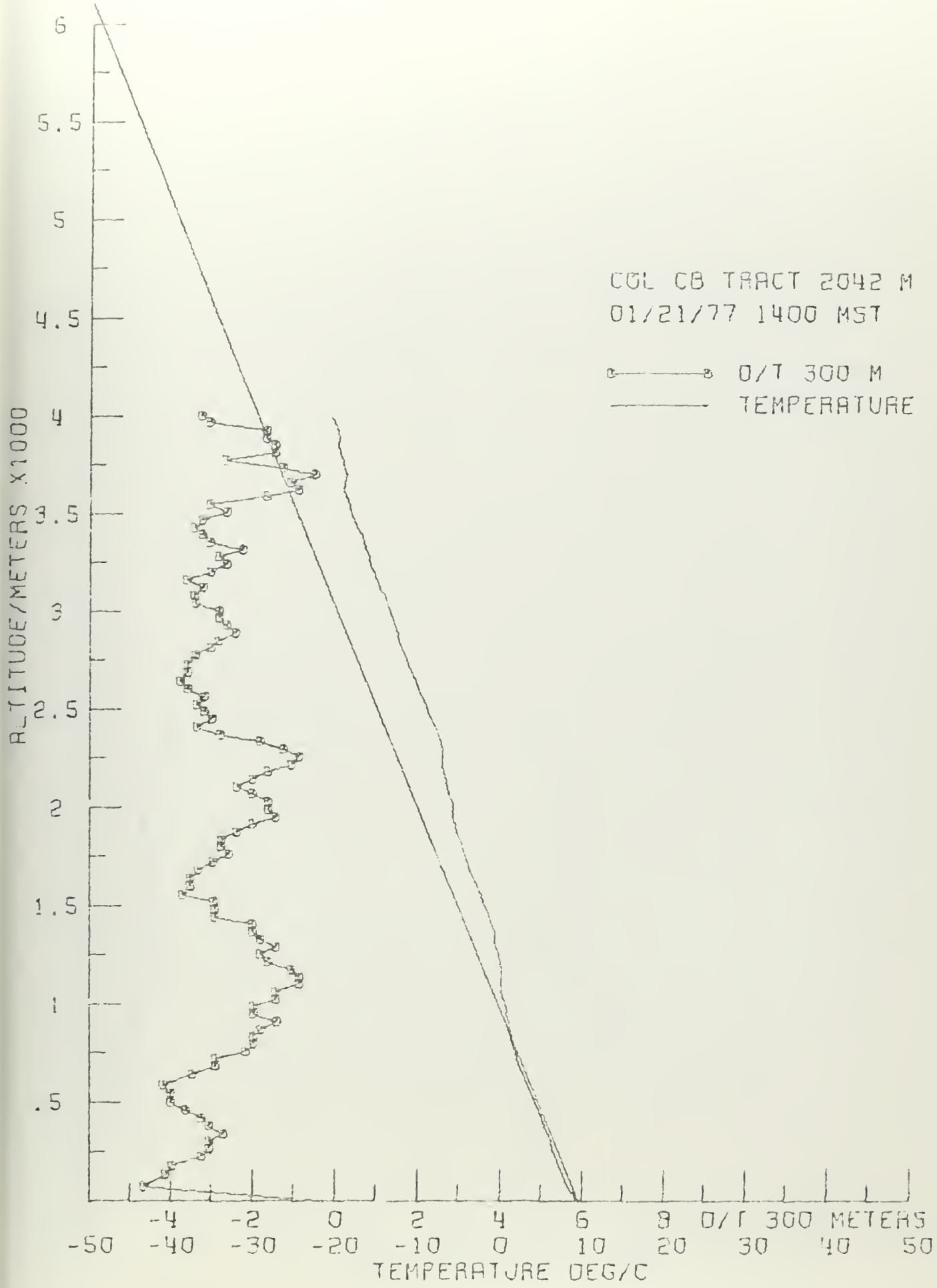
WIND DIRECTION (DEG)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01/21/77 1400 MST
O/T 300 M
TEMPERATURE
ALTITUDE/METERS X1000
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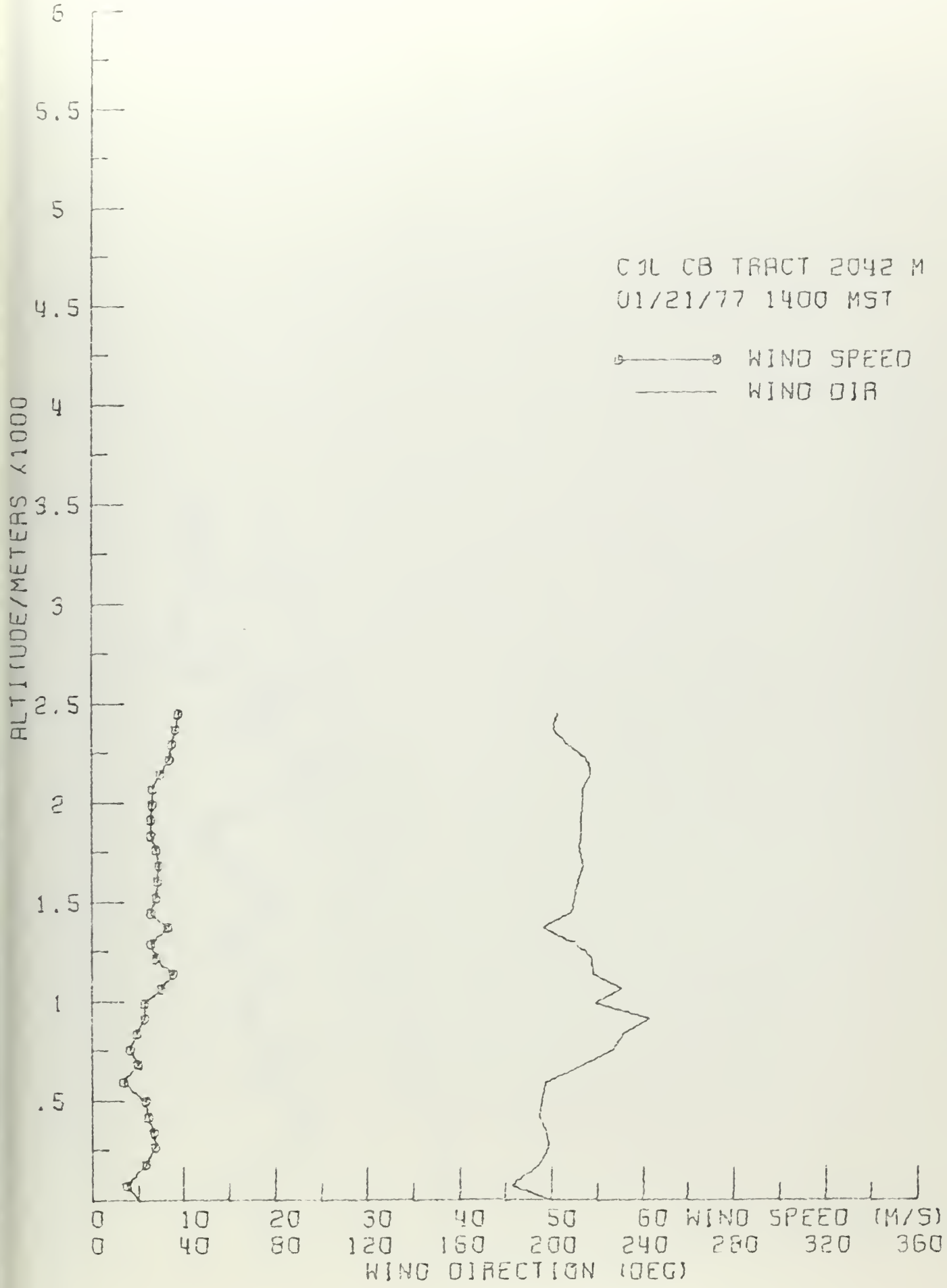
TEMPERATURE DEG/C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01/21/77 1400 MST
WIND SPEED
WIND DIR
ALTITUDE/METERS X1000
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0 10 20 30 40 50 60 WIND SPEED (M/S)
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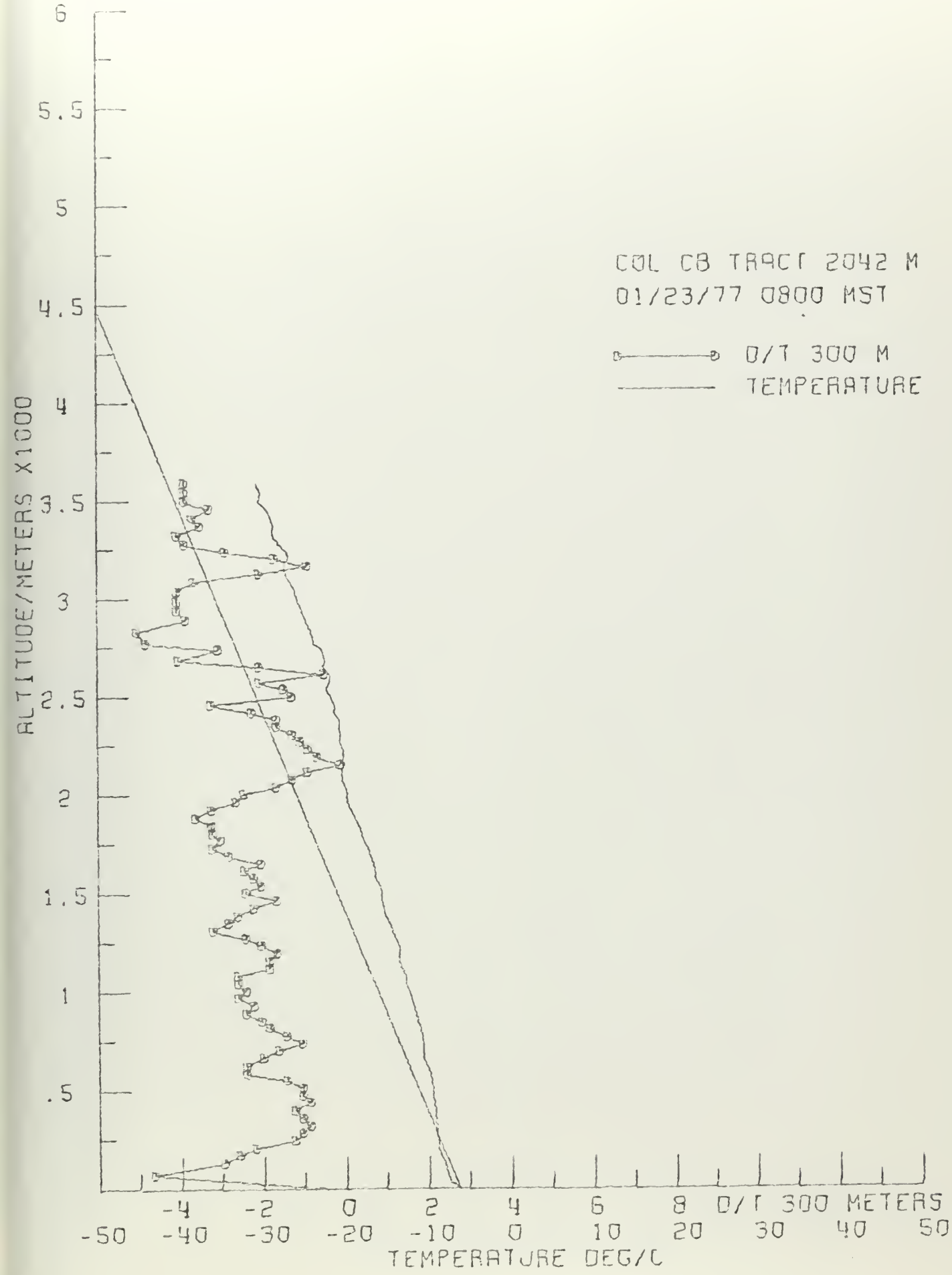
WIND DIRECTION (DEG)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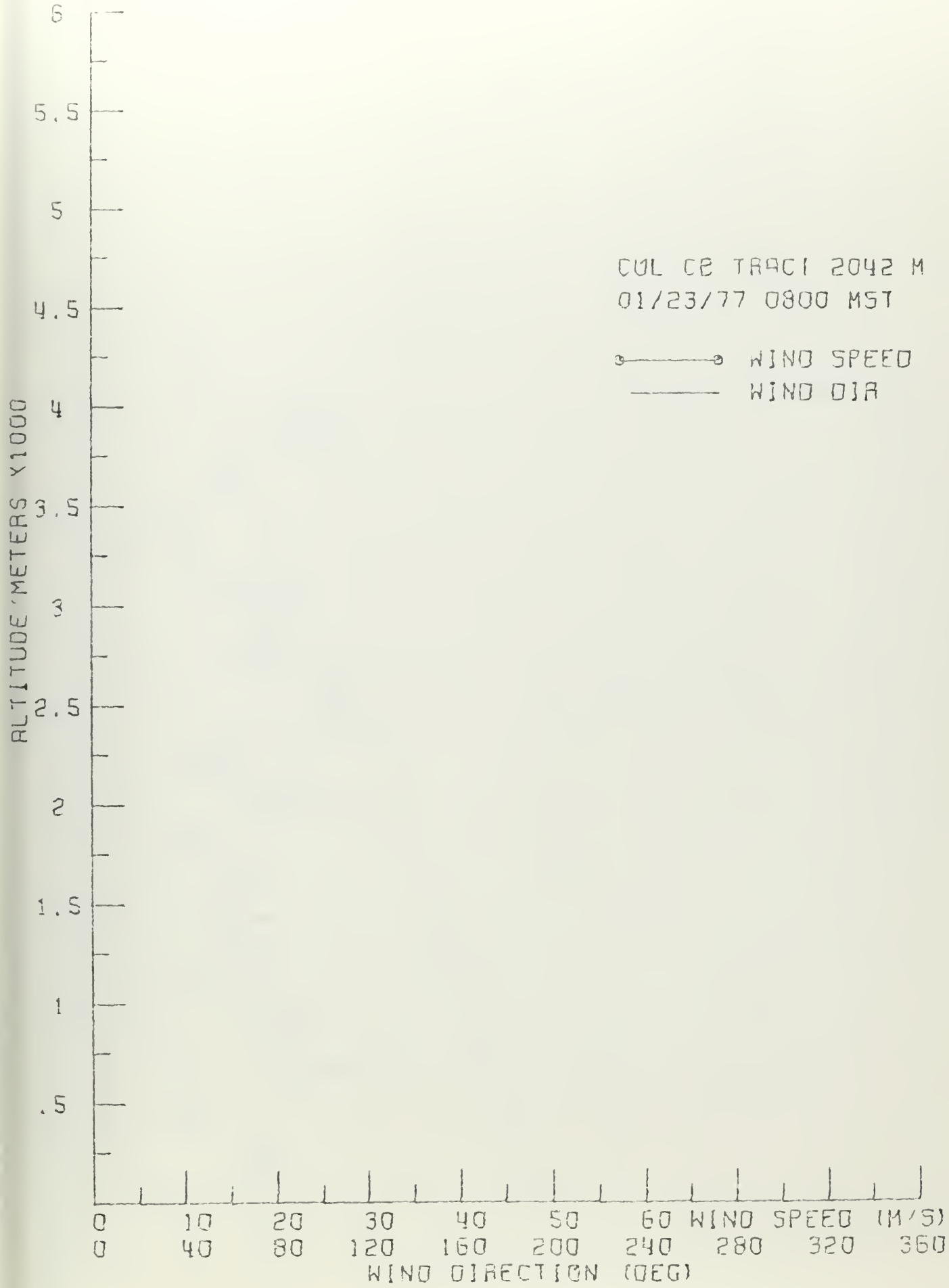
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WIND SPEED
WIND DIR
ALTITUDE'METERS X1000
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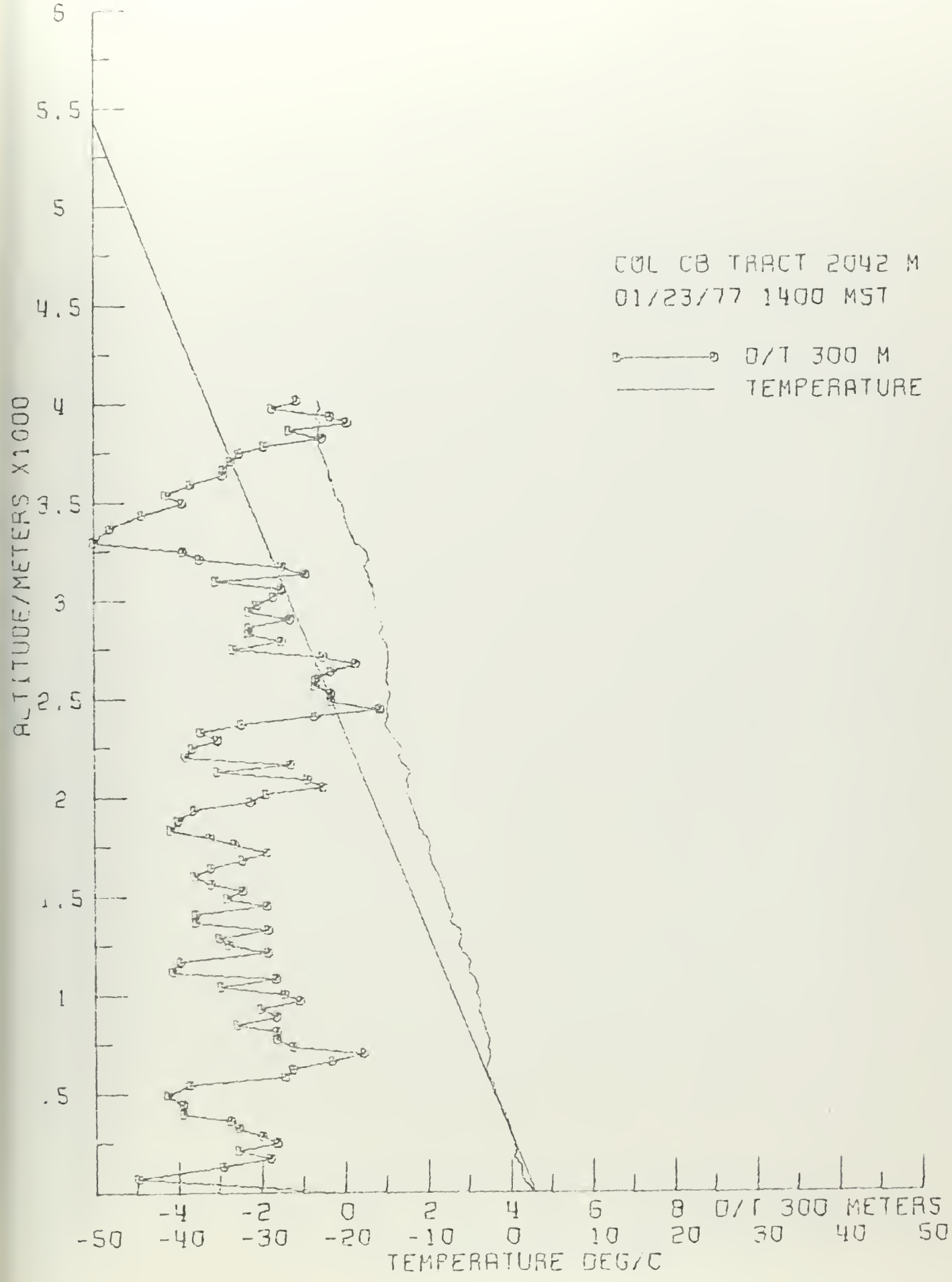
WIND DIRECTION (DEG)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TEMPERATURE
ALTITUDE/METERS X1000
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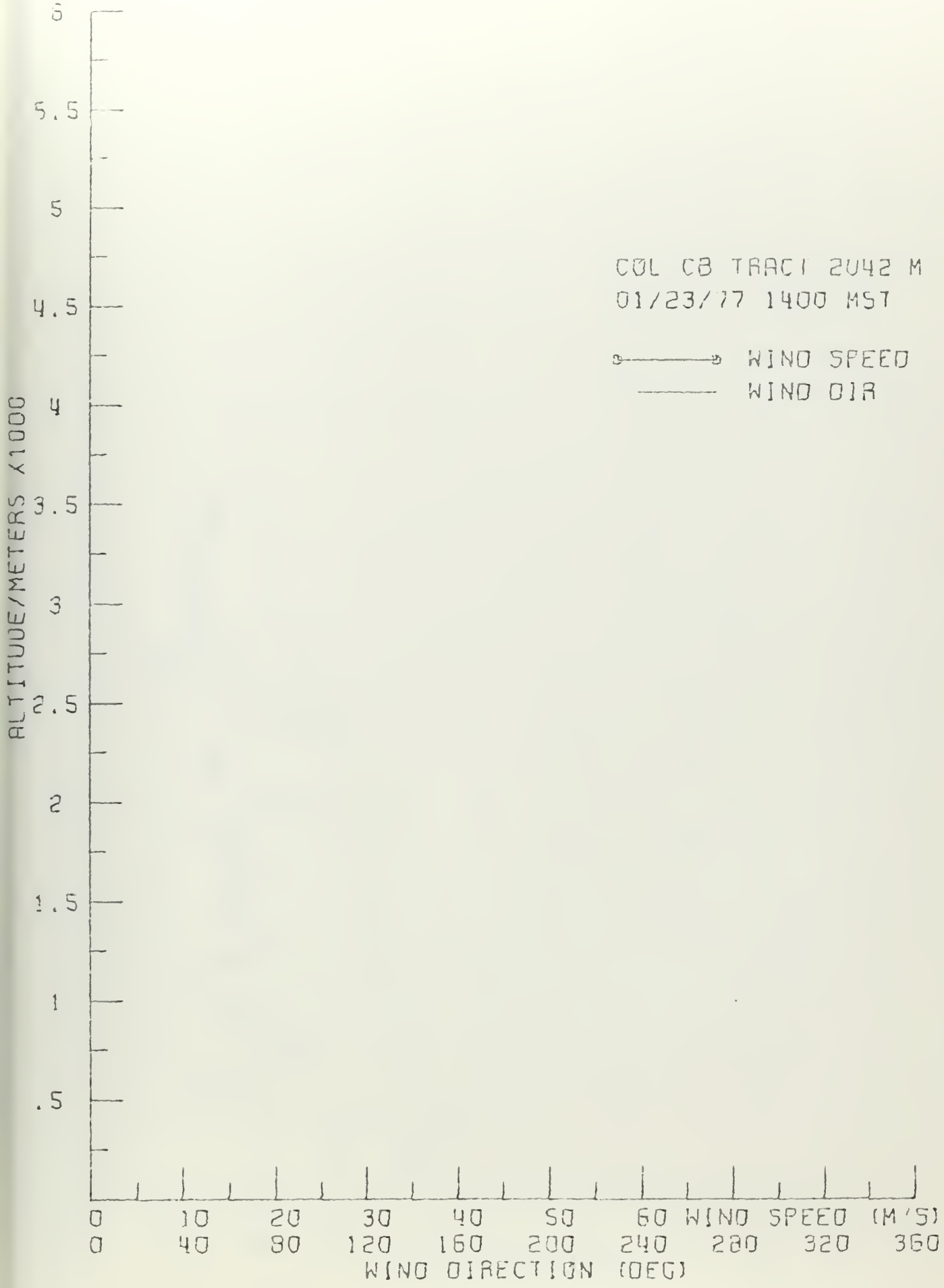
TEMPERATURE DEG/C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01/23/77 1400 MST
WIND SPEED
WIND DIR
ALTITUDE/METERS X1000
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0 10 20 30 40 50 60 WIND SPEED (M/S)
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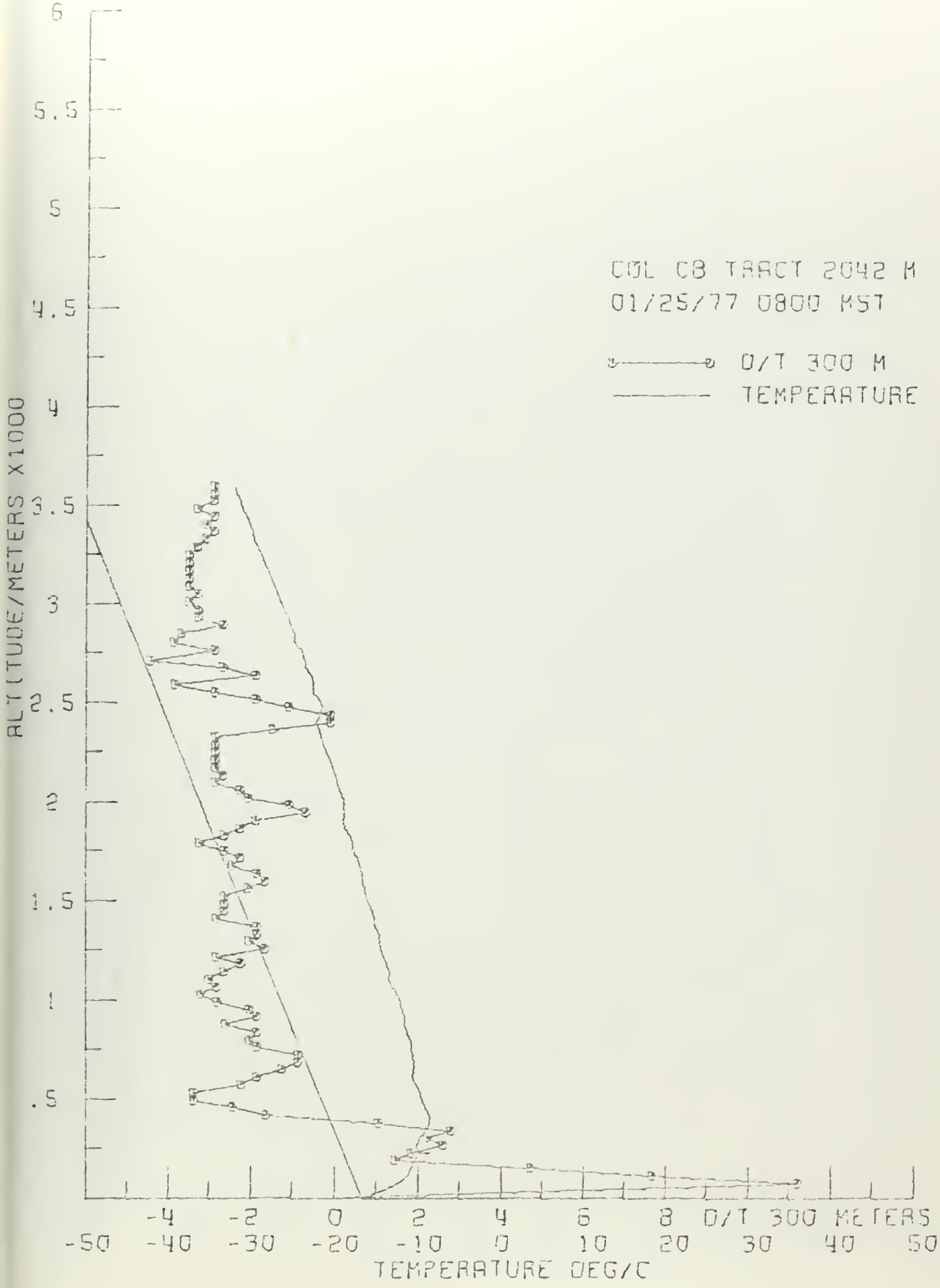
WIND DIRECTION (DEG)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01/25/77 0800 MST
D/T 300 M
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ALTITUDE/METERS X1000
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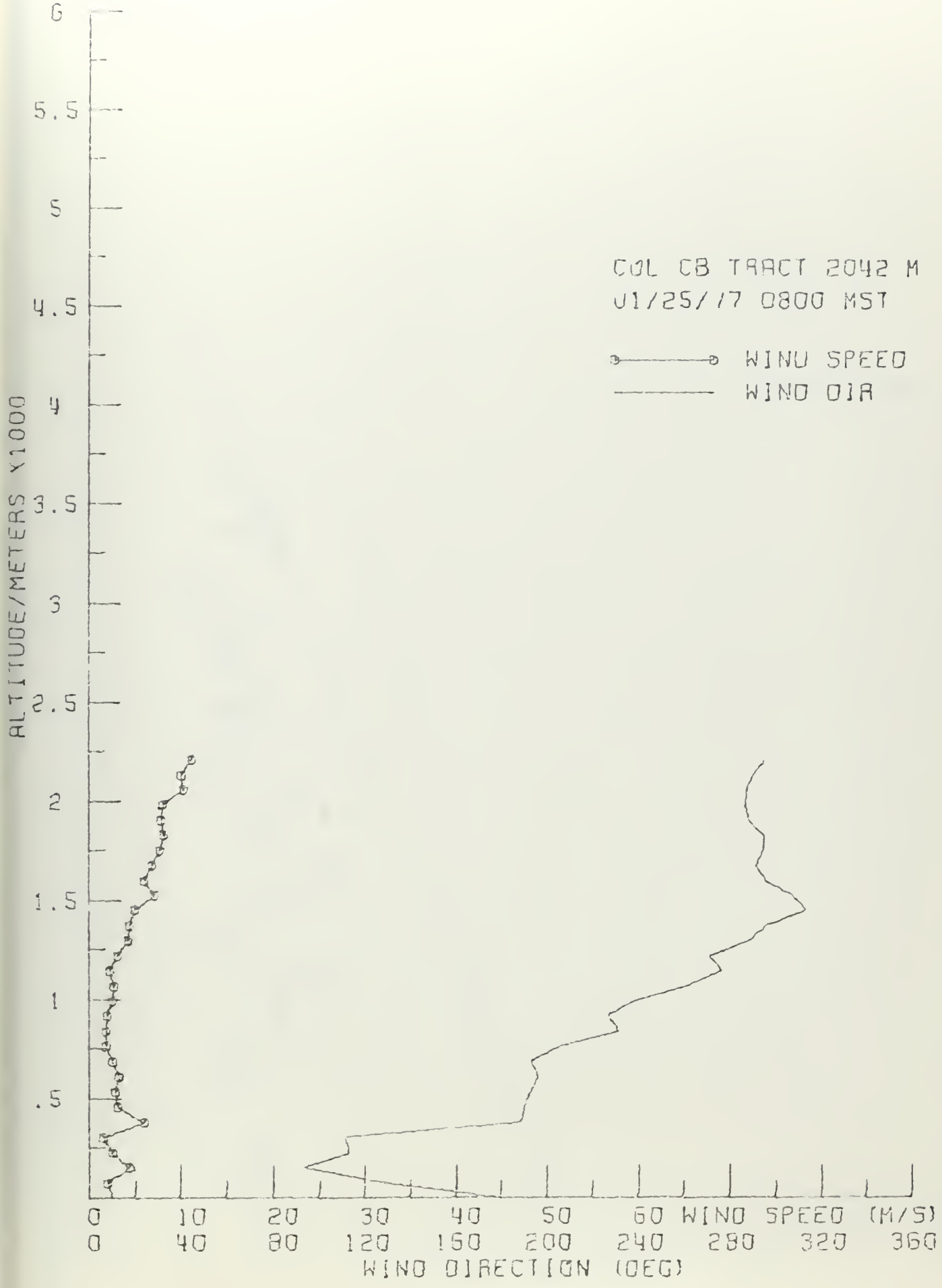
TEMPERATURE DEG/C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01/25/77 0800 MST
WIND SPEED
WIND DIR
ALTITUDE/METERS X1000
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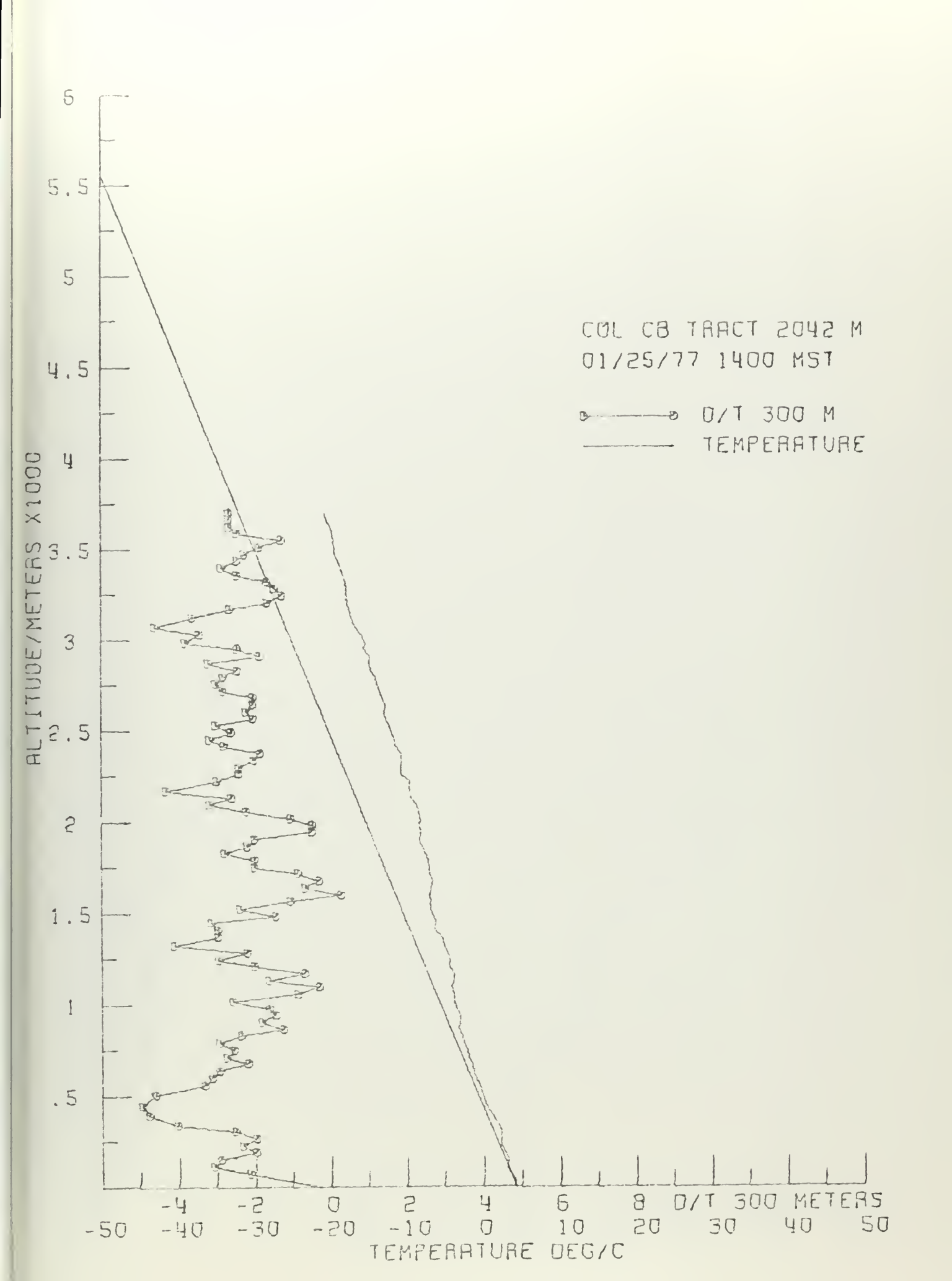
WIND DIRECTION (DEG)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01/25/77 1400 MST
D/T 300 M
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ALTITUDE/METERS X1000
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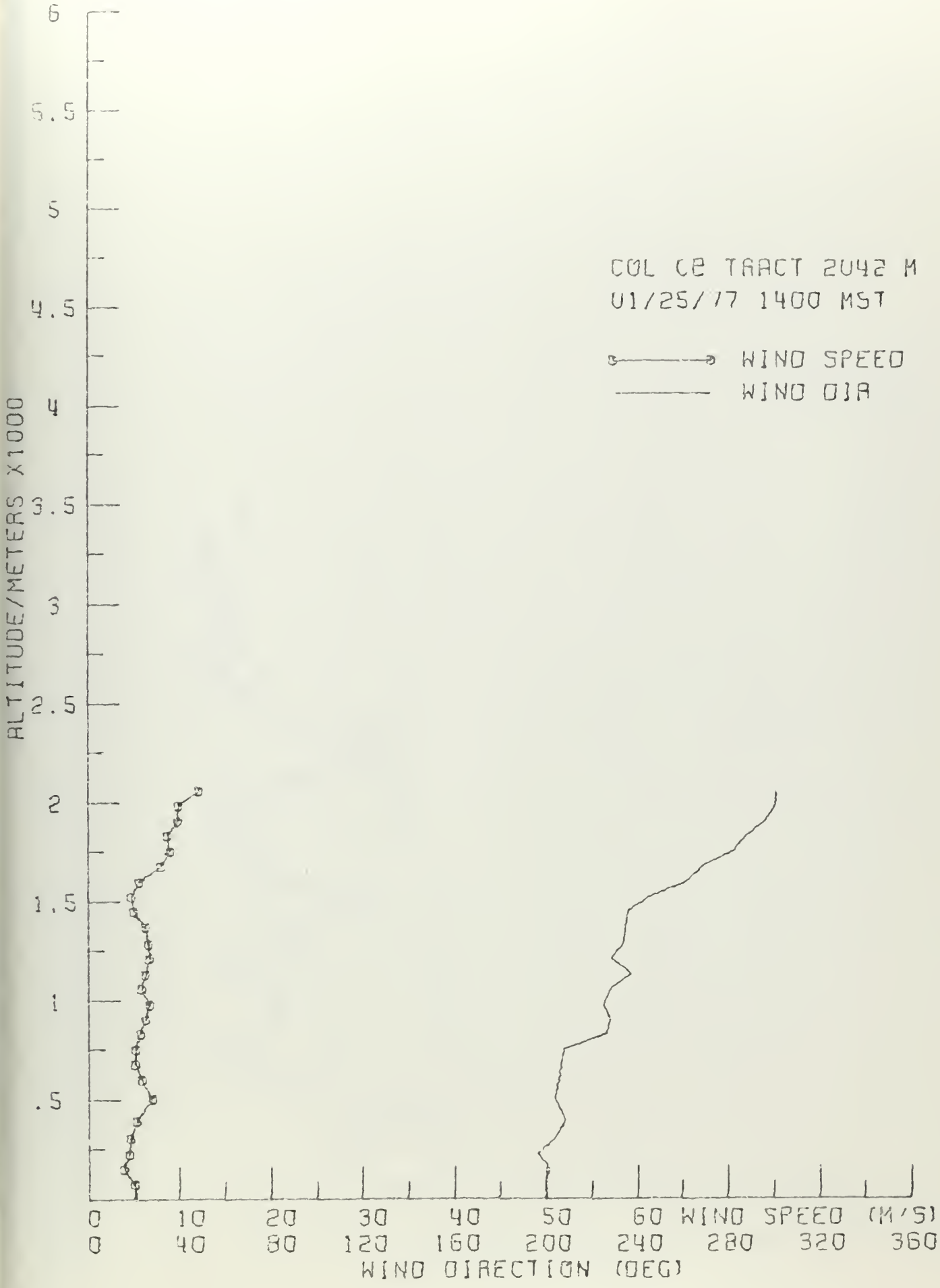
TEMPERATURE DEG/C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01/25/77 1400 MST
WIND SPEED
WIND DIR
ALTITUDE/METERS X1000
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0 10 20 30 40 50 60 WIND SPEED (M/S)
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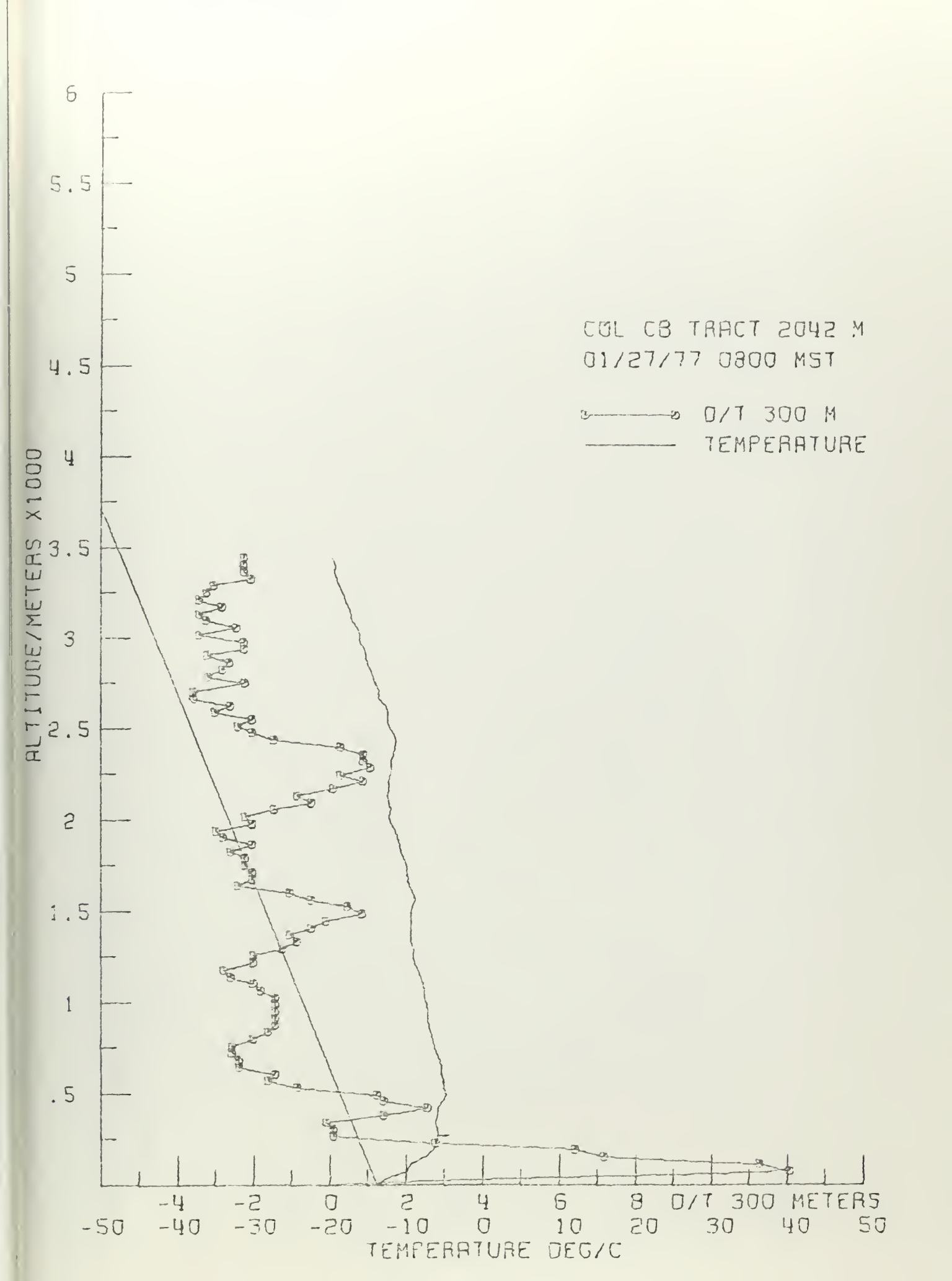
WIND DIRECTION (DEG)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01/27/77 0800 MST
O/T 300 M
TEMPERATURE
ALTITUDE/METERS X1000
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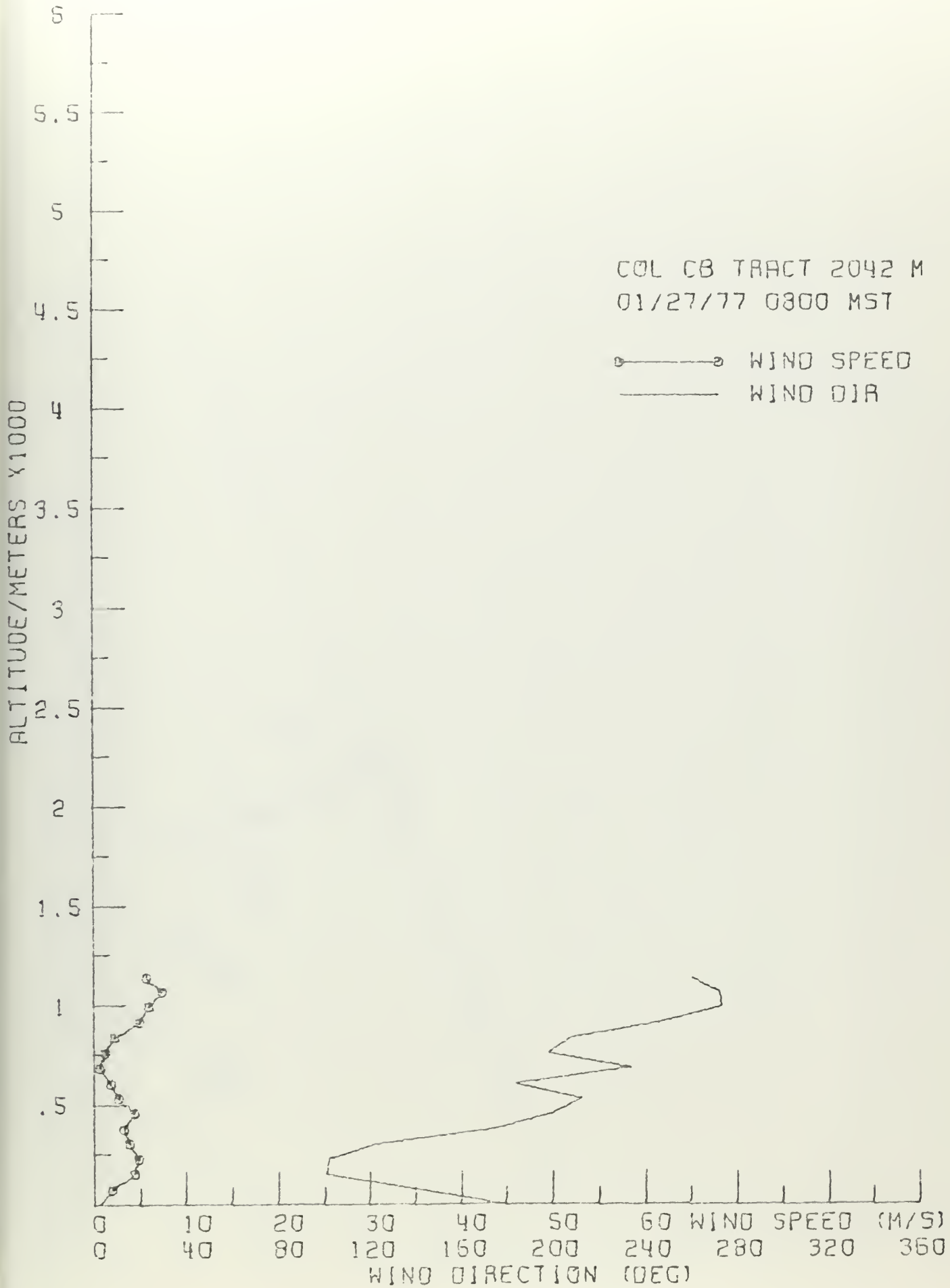
TEMPERATURE DEG/C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01/27/77 0800 MST
WIND SPEED
WIND DIR
ALTITUDE/METERS X1000
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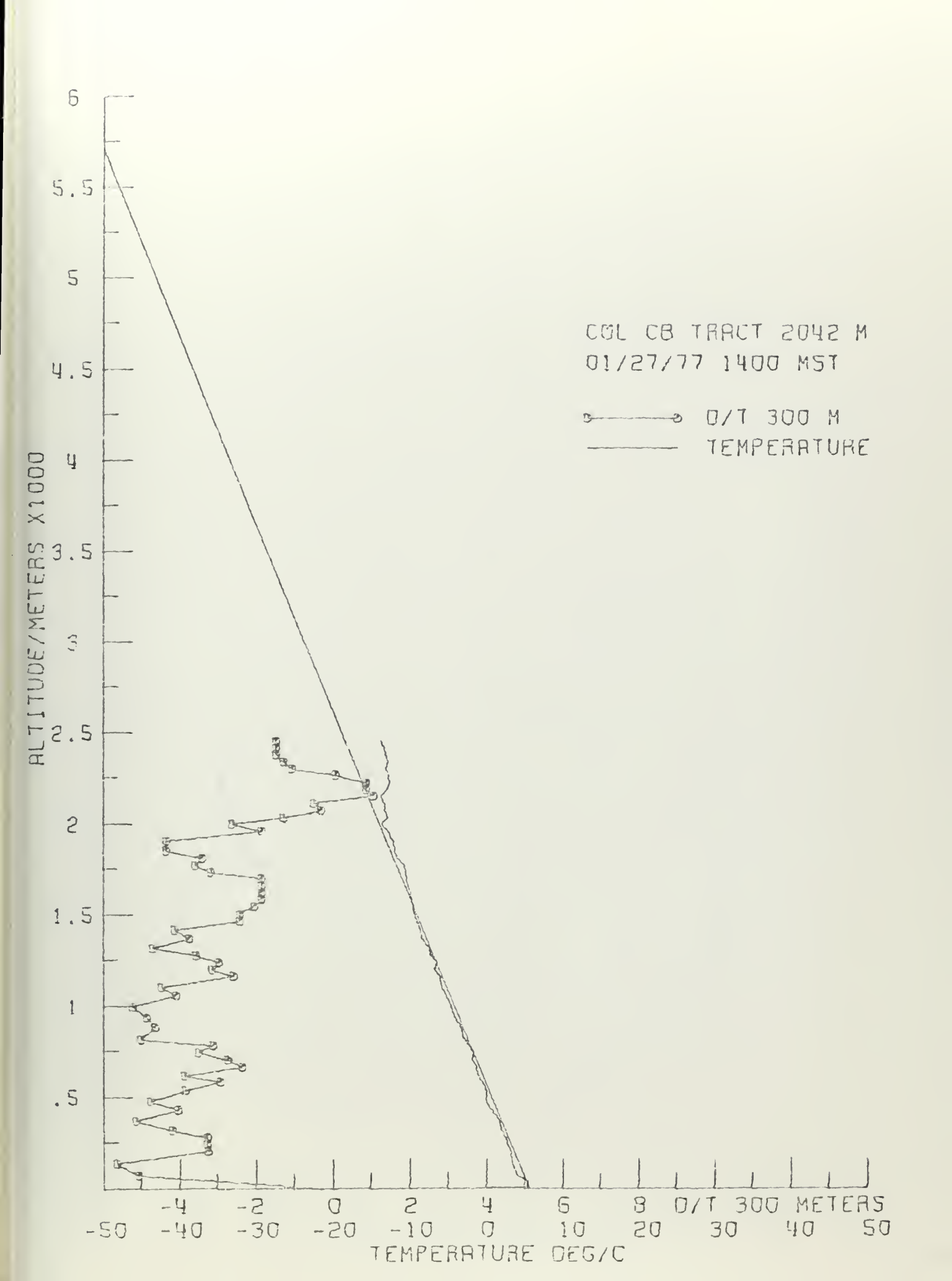
0 10 20 30 40 50 60 WIND SPEED (M/S)
0 40 80 120 160 200 240 280 320 360
WIND DIRECTION (DEG)


COL CB TRACT 2042 M
01/27/77 1400 MST
O/T 300 M
TEMPERATURE
ALTITUDE/METERS X1000
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4.5
4
3.5
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O/T 300 METERS
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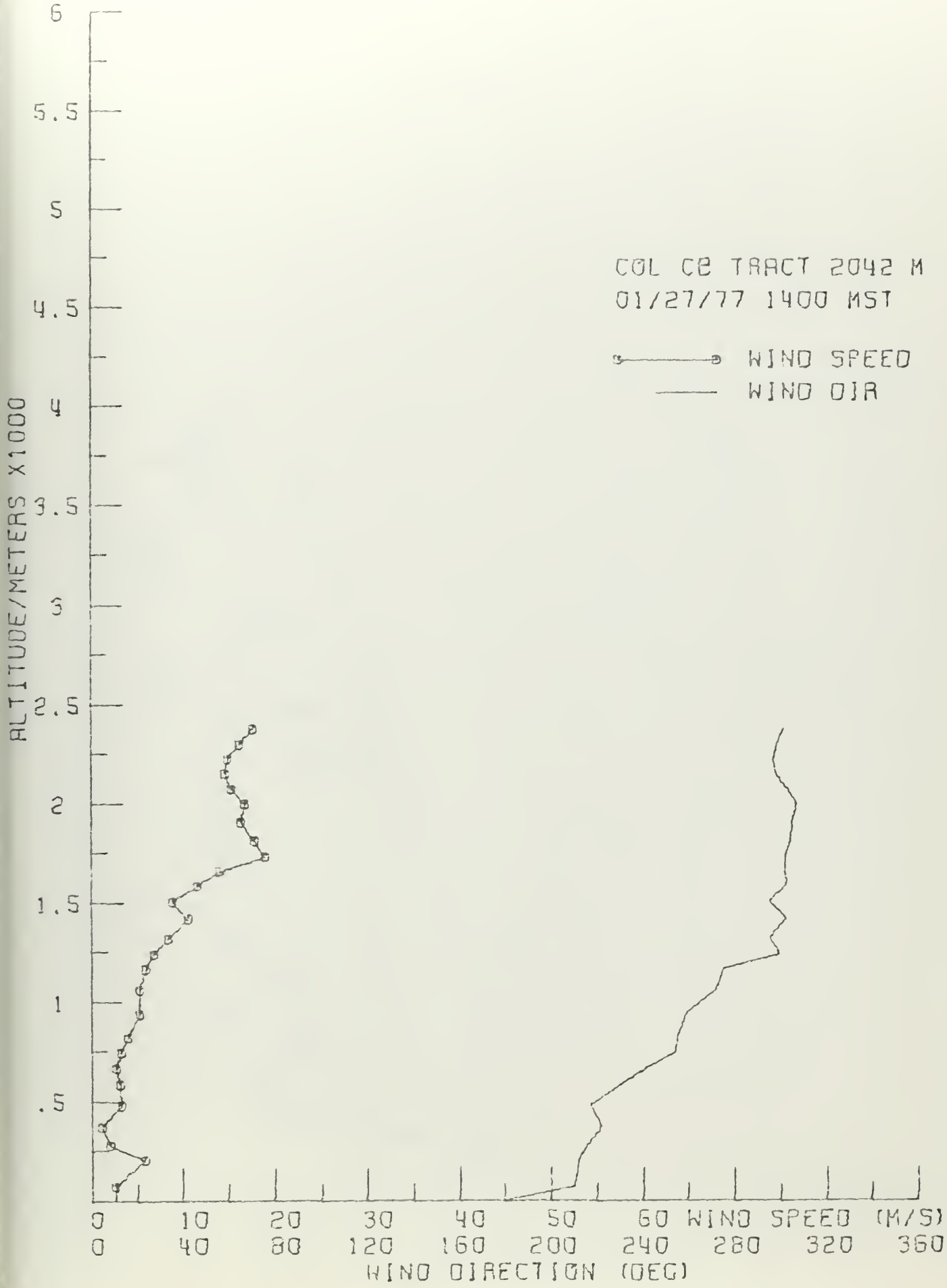
TEMPERATURE DEG/C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01/27/77 1400 MST
WIND SPEED
WIND DIR
ALTITUDE/METERS X1000
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0 10 20 30 40 50 60 WIND SPEED (M/S)
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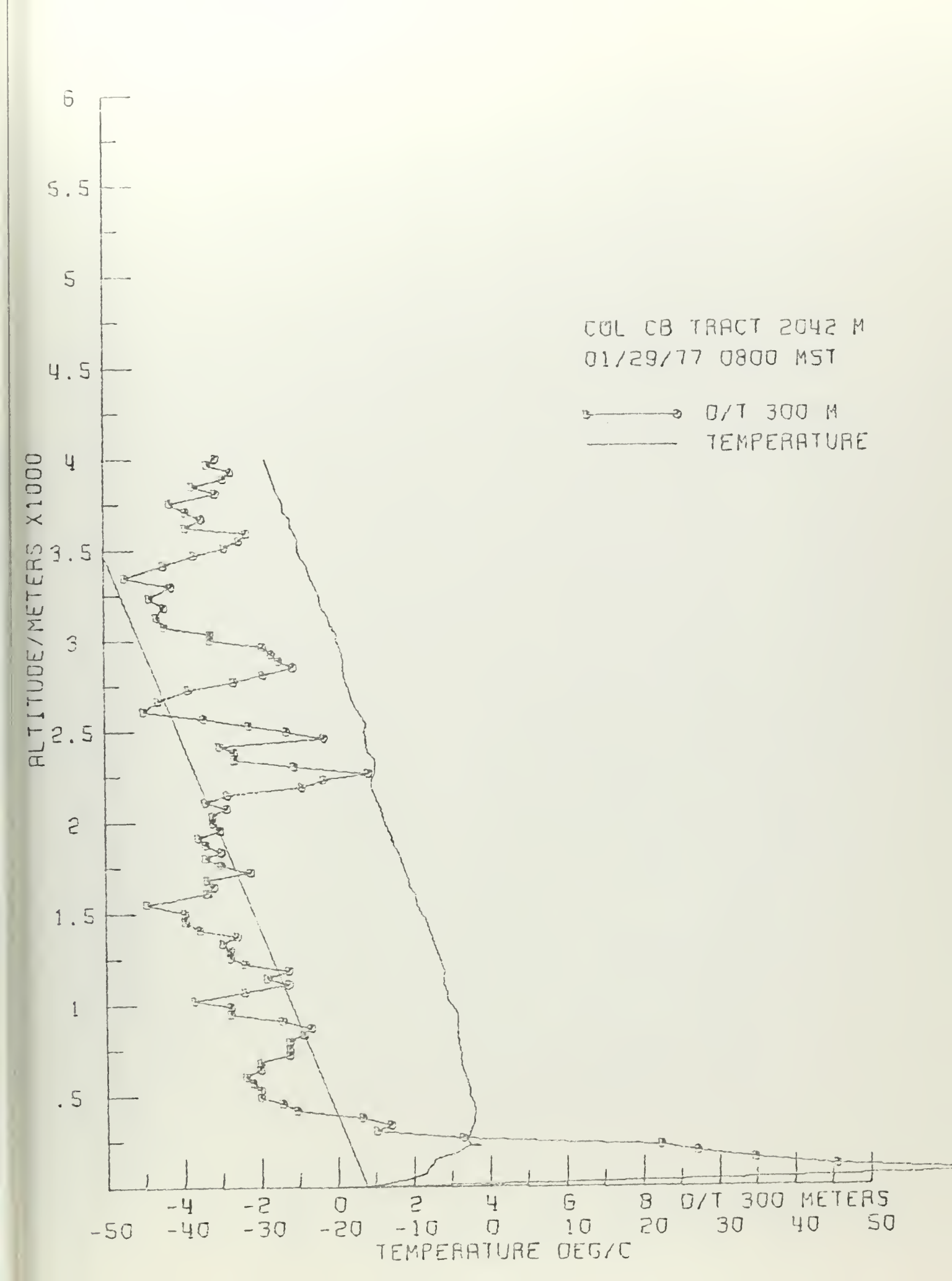
WIND DIRECTION (DEG)


COL CB TRACT 2042 M
01/29/77 0800 MST
O/T 300 M
TEMPERATURE
ALTITUDE/METERS X1000
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O/T 300 METERS
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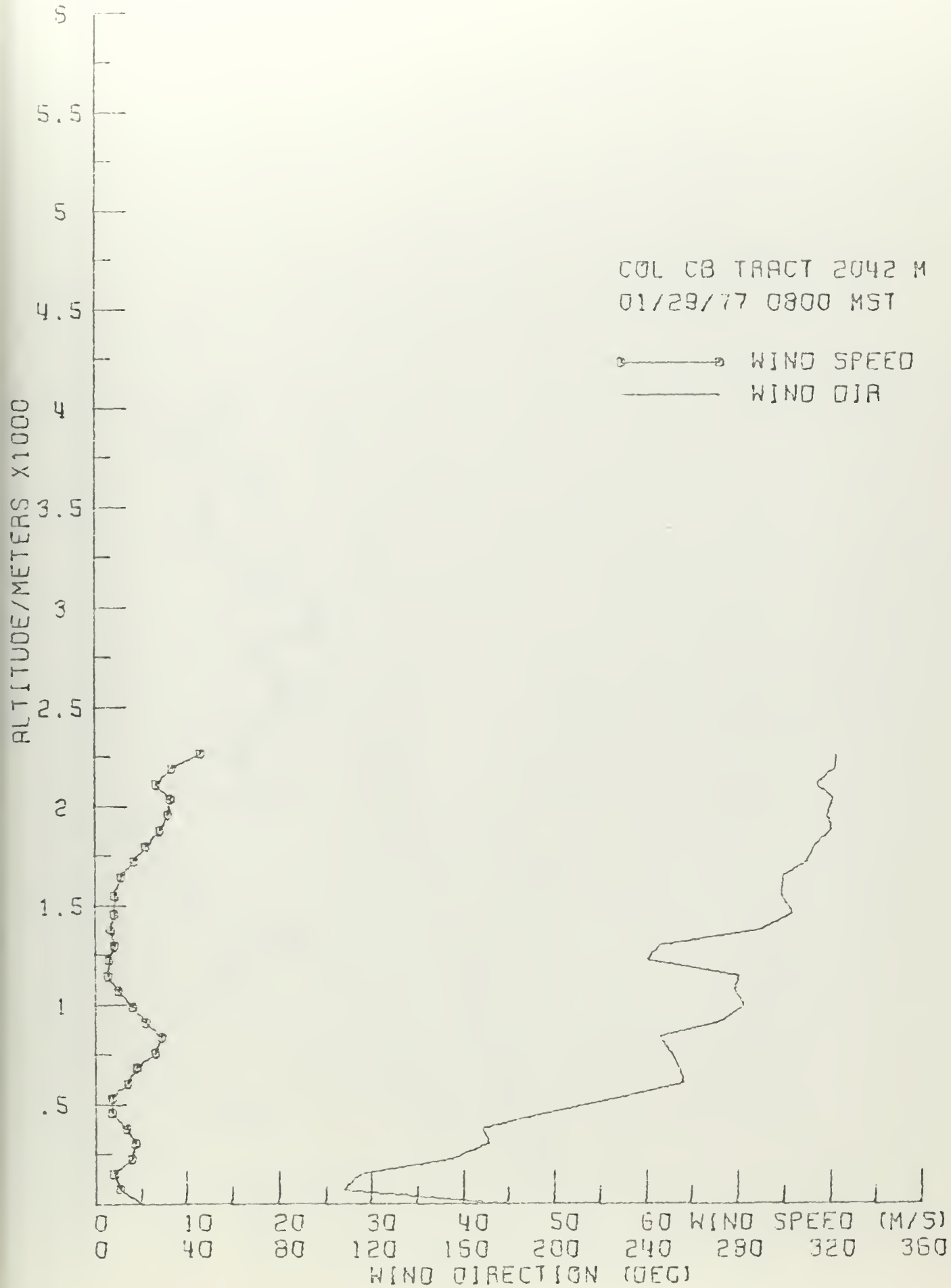
TEMPERATURE DEG/C


COL CB TRACT 2042 M
01/29/77 0800 MST
WIND SPEED
WIND DIR
ALTITUDE/METERS X1000
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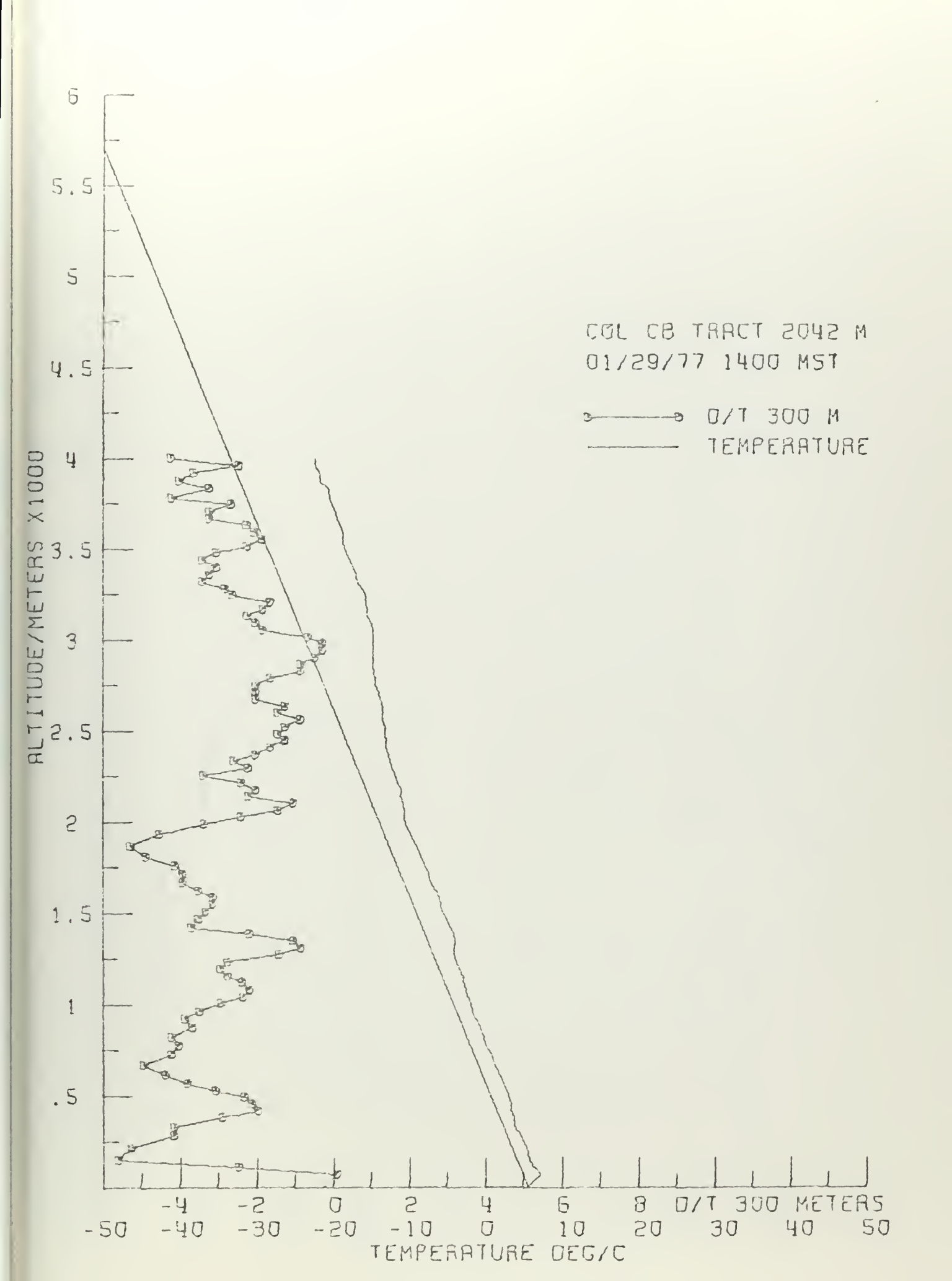
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O/T 300 METERS
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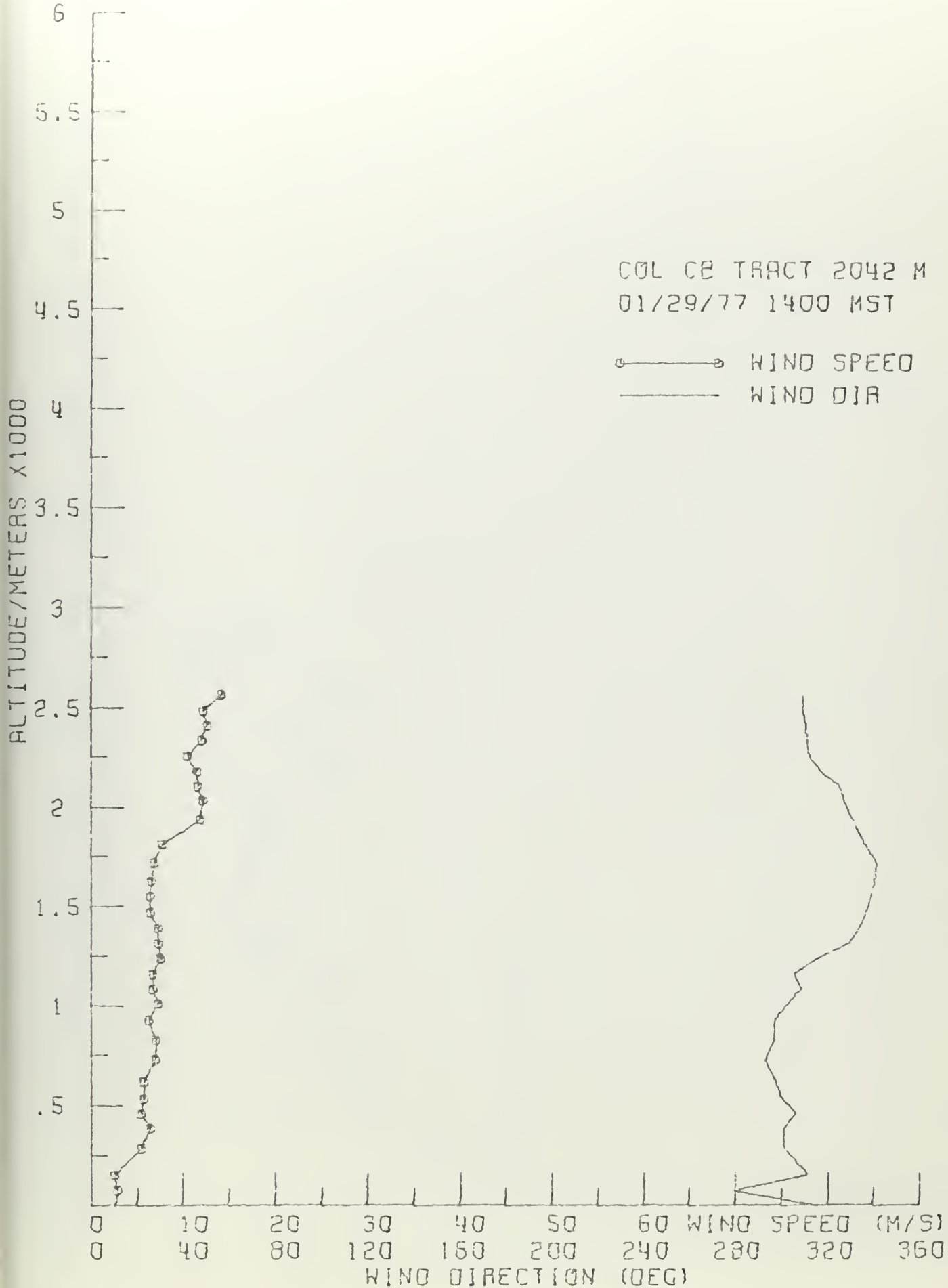
TEMPERATURE DEG/C


COL CE TRACT 2042 M
01/29/77 1400 MST
WIND SPEED
WIND DIR
ALTITUDE/METERS X1000
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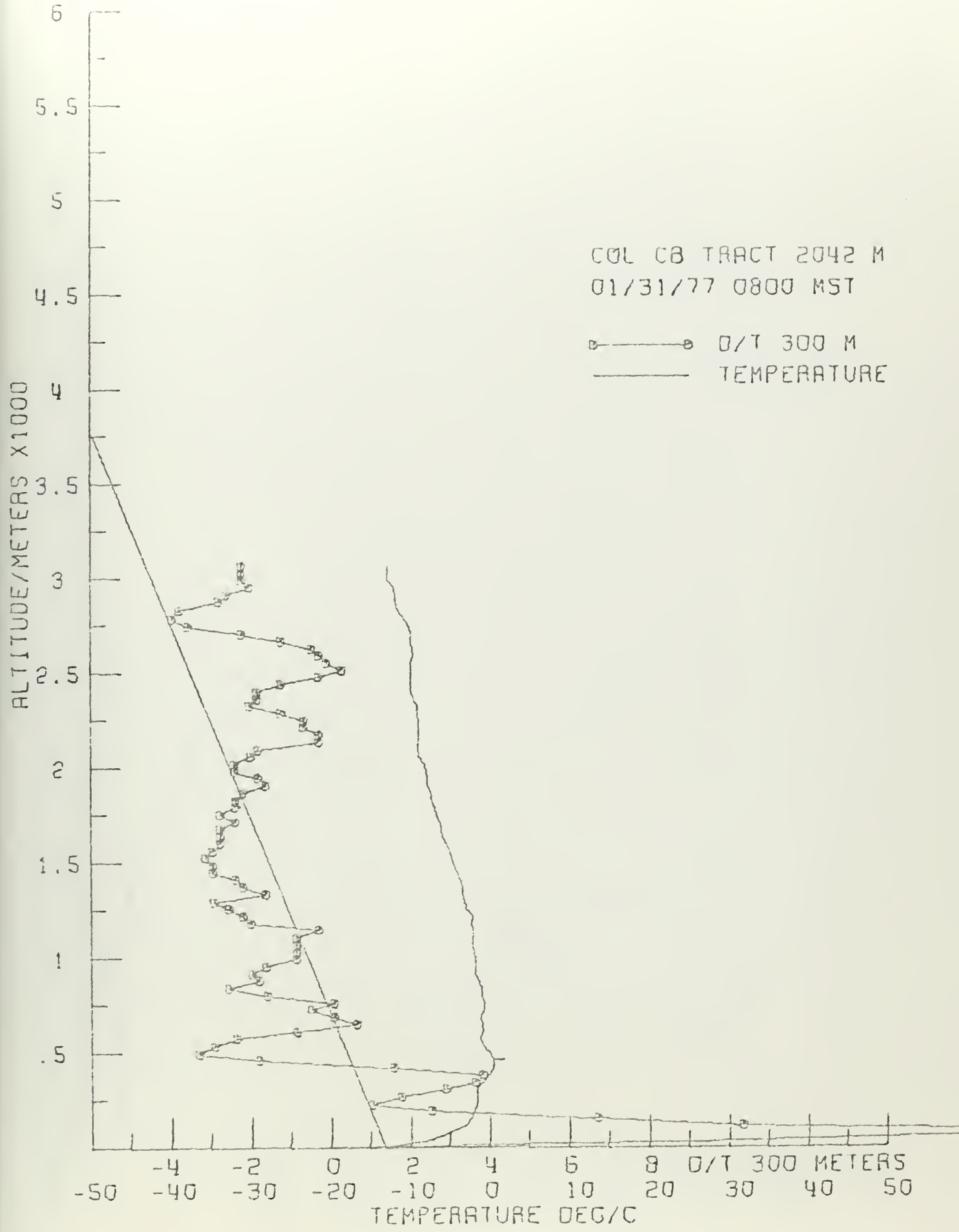
COL CB TRACT 2042 M
01/31/77 0800 MST
O/T 300 M
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ALTITUDE/METERS X1000
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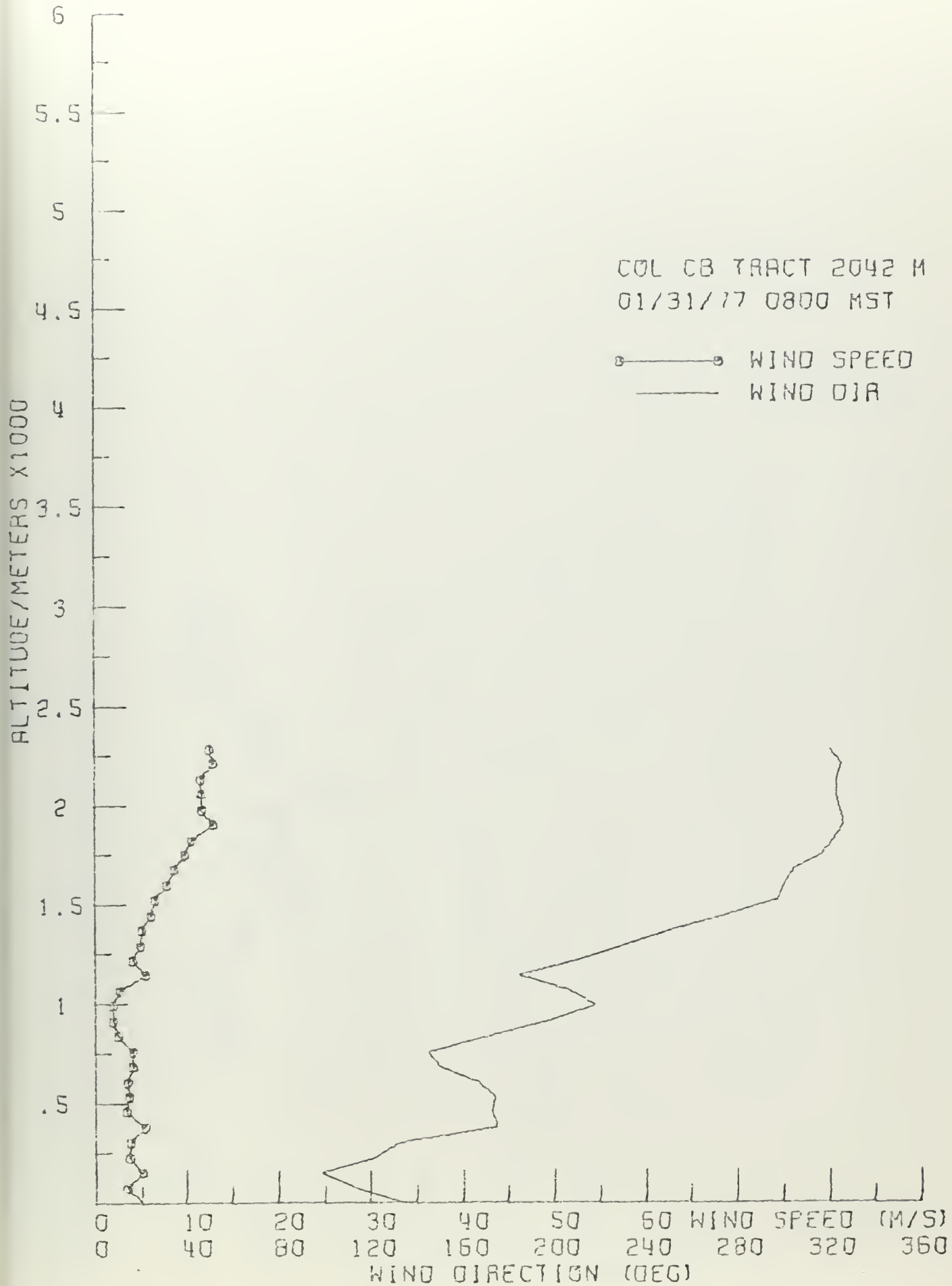
TEMPERATURE DEG/C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01/31/77 0800 MST
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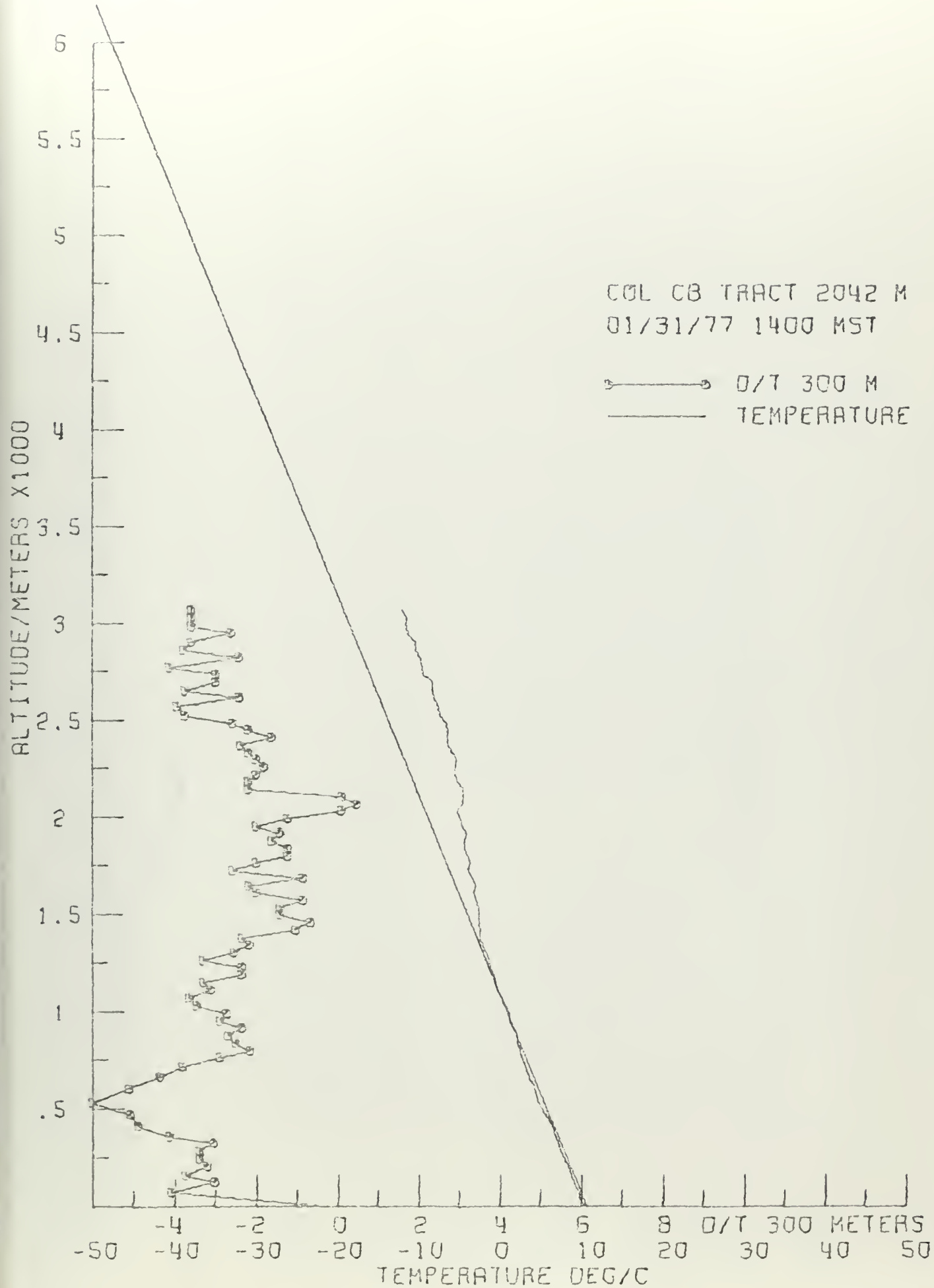
COL CB TRACT 2042 M
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O/T 300 M
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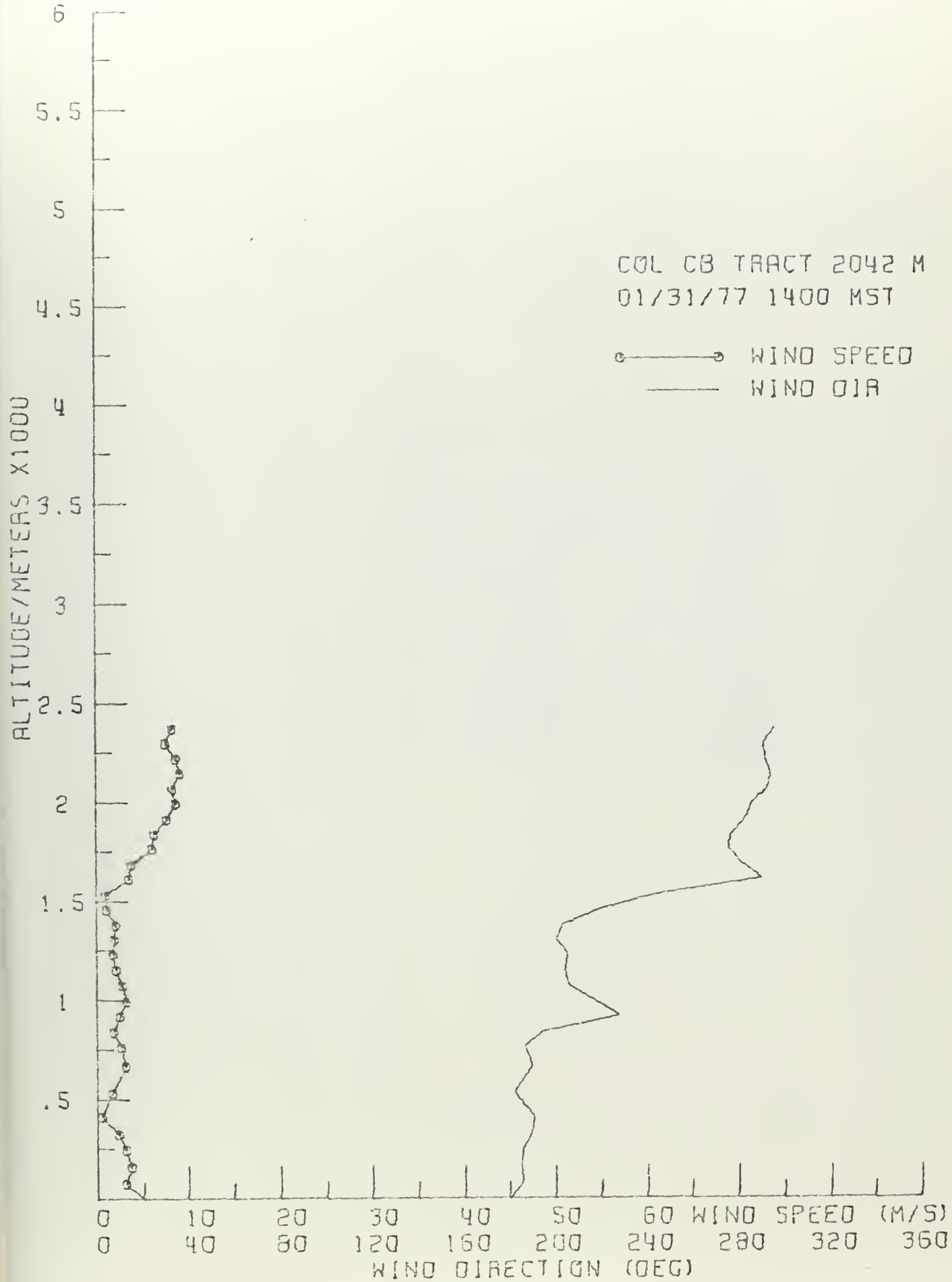
TEMPERATURE DEG/C


COL CB TRACT 2042 M
01/31/77 1400 MST
WIND SPEED
WIND DIR
ALTITUDE/METERS X1000
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0 40 80 120 160 200 240 280 320 360
WIND DIRECTION (DEG)

Form 1279–3
(June 1984)

BORROWER'

TN 859 .C64 C3750

Monthly progress
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DATE LOANED	BORROWER

USDI – BLM